505494163 05/24/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5540967

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
ADAM CHARLES BERKEY		03/10/2018
ELIOT GEATHERS		03/21/2018
DANIEL WARREN HAWTOF		02/26/2018
DOUGLAS EDWARD MCELHEN	Y	03/09/2018
JIANDONG MENG		02/26/2018
ELIAS PANIDES		03/12/2018
GAOZHU PENG		03/01/2018
RANDY LEE RHOADS		02/27/2018
YURIY YURKOVSKYY		03/23/2018
CHUNFENG ZHOU		02/26/2018

RECEIVING PARTY DATA

Name:	CORNING INCORPORATED
Street Address:	ONE RIVERFRONT PLAZA
Internal Address:	SP-TI-3-1
City:	CORNING
State/Country:	NEW YORK
Postal Code:	14831

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16464231

CORRESPONDENCE DATA

Fax Number:	(513)977-8141
	to the e-mail address first; if that is unsuccessful, it will be sent ed; if that is unsuccessful, it will be sent via US Mail.
Phone:	513-977-8200
Email:	elise.merkel@dinsmore.com
Correspondent Name:	DINSMORE & SHOHL LLP
Address Line 1:	255 EAST FIFTH STREET
Address Line 2:	SUITE 1900
Address Line 4:	CINCINNATI, OHIO 45202

ATTORNEY DOCKET NUMBER:	SP16-268 / 34116-3970
NAME OF SUBMITTER: BRIAN A. TENT	
SIGNATURE:	/Brian A. Tent/
DATE SIGNED:	05/24/2019
Total Attachments: 12	
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ASSIGNMENT

FOR VALUE RECEIVED, I, as a below named inventor, hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, including the right of priority, for all countries, in and to certain inventions relating to **METHODS AND APPARATUSES FOR CONTROLLING GLASS TUBE TAPER**, such inventions being generally described in an application for an international patent provided by the International Convention for the Protection of Industrial Property, as amended, or other form of protection for said inventions filed by it or them, and for which said application for International Patent was filed under;

PCT Application No. <u>PCT/US2017/063906</u> filed <u>11/30/2017</u> claiming priority of

United States Provisional Serial No. <u>62/428.005 filed 11/30/2016</u>

and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

I hereby authorize and request the attorney(s) and/or agent(s) empowered to act on **CORNING's** behalf in the aforementioned application, to insert above the filing date and application number of said application, when known.

I request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

I agree that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

I authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at Pittsburgh, Pennsylvania this

Adam Charles Berkey Date COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL State of Pennsylvania) PAUL H. ACCOY, Notary Public SS.

County of MARGONIENT

Mount Lebanon Township, Allegheny County Sty Commission Expires June 3, 2019

On the 10 day of 3^{33} day of 3^{33} 2018, before me personally came Adam Charles Berkey known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

		<u>/ H_</u>	M. Com
Signed at <u>Coanne</u>	, Texas this	Notary Public	S.C.T.
3/21/2013 Date	Eliot Geather	Puthin	
State of Texas)		
County of	\$ SS. }		

On the day of 2018, before me personally came Eliot Geathers known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Signed at CORNING, NEW YORK, this

Notary Public

Date

Daniel Warren Hawtof

Date

Douglas Edward McElheny

Date

Jiandong Meng

Date

Title:

Elias Panides

Receipt acknowledged on behalf of Corning Incorporated by:

IN ₿y: Name:

Thomas R. Beall Vice President & Chief IP Counsel

Dated: 3/28/18

PCT Attorney Docket No.: SP16-268

Date	Gaozhu Peng
Date	Randy Lee Rhoads
Harch 23, 2018 Date	Yuriy Yurkovsky
Date	Chunfeng Zhou
State of NEW YORK) : ss. County of Steuben)	
On the day of described in and who executed the for	2018, before me personally came Daniel Warren Hawtof known to be the person egoing instrument, and acknowledged that they executed the same.
State of NEW YORK) : ss. County of Steuben)	Notary Public
On the day of person described in and who executed	2018, before me personally came Douglas Edward McElheny known to be the the foregoing instrument, and acknowledged that they executed the same.
State of NEW YORK) : ss. County of Steuben)	Notary Public
On the day of 2i and who executed the foregoing instru	018, before me personally came Jiandong Meng known to be the person described in ment, and acknowledged that they executed the same.
	Notary Public
State of NEW YORK) : ss. County of Steuben)	
On the day of 2 and who executed the foregoing instrum	1018, before me personally came Elias Panides known to be the person described in ment, and acknowledged that they executed the same.
	Notary Public
Receipt acknowledged on behalf of Coming Is By:	Dated: 3/27/18
Title: Vice President & Chief IP Counsel	

State of NEW YORK) : ss.

County of Steuben)

On the _____ day of _____ 2018, before me personally came Gaozhu Peng known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

State of NEW YORK)

Notary Public

State of NEW TORK) : SS.

County of Steuben)

On the _____ day of _____ 2018, before me personally came Randy Lee Rhoads known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

5	Notary Public
State of NEW YORK) (unio47.Ass.) County of Steuben)	
	ally came Yuriy Yurkovskyy known to be the person
described in and who executed the foregoing instrument, and ackn	owieuged that mey executed the same.
DARREN T BREGANDE	Jan T. Bregardy
State of NEW YORK) Notary Public - State of New York State of NEW YORK) N0. 018R6119611 County of Steuben) Qualified in Onondaga County My Commission Expires OI-13-21	Notary Public

On the _____ day of _____ 2018, before me personally came Chunfeng Zhou known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Notary Public

Receipt acknowledged on behalf of Corning Incorporated by:

020 By:

Name: Thomas R. Beall Title: Vice President & Chief IP Counsel

Dated: 3/22/12

ASSIGNMENT

FOR VALUE RECEIVED, I, as a below named inventor, hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, including the right of priority, for all countries, in and to certain inventions relating to **METHODS AND APPARATUSES FOR CONTROLLING GLASS TUBE TAPER**, such inventions being generally described in an application for an international patent provided by the International Convention for the Protection of Industrial Property, as amended, or other form of protection for said inventions filed by it or them, and for which said application for International Patent was filed under;

PCT Application No. <u>PCT/US2017/063906</u> filed <u>11/30/2017</u> claiming priority of

United States Provisional Serial No. <u>62/428.005 filed 11/30/2016</u>

and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

I hereby authorize and request the attorney(s) and/or agent(s) empowered to act on **CORNING's** behalf in the aforementioned application, to insert above the filing date and application number of said application, when known.

I request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

I agree that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

I authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at Pittsburgh, Pennsylvania this

Date

Adam Charles Berkey

State of Pennsylvania) State of Pennsylvania) Ss. County of)

On the _____ day of _____ 2018, before me personally came Adam Charles Berkey known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

NEW Signed at <u>CORMANY</u> , Texas	
<u>3/2:/2=18</u> Date	Eliot Geather
State of Fexas	
County of $\underline{\mathcal{S}}(\underline{s},\underline{b},\underline{f},\underline{f})$	
On the $\frac{2}{3}$ day of $\frac{1}{3}$ day of \frac{1}{3} day of $\frac{1}{3}$ day of \frac{1}{3} day of $\frac{1}{3}$ day of $\frac{1}{3}$ day of \frac{1}{3} day of $\frac{1}{3}$ day of \frac{1}{3}	2018, before me personally came Eliot Geathers known to be the person described in ument, and acknowledged that they executed the same.
Signed at CORNING, NEW YOF <u>Z / Z, / Z, N</u> Date	K, this CK, thi
Date 0 2/26/2018 Date 03/12/2018 < 000 Date	Douglas Edward McElheny Jiandong Meng Elias Panides

Receipt acknowledged on behalf of Corning Incorporated by:

₿y:_ Thomas R. Beall Name:

Dated: 3 22/18

Title: Vice President & Chief IP Counsel

PATENT REEL: 049282 FRAME: 0164

PCT Attorney Docket No.: SP16-268

<u>03/01/2018</u> Date Gaozhu Peng landy Lee Rhoads Yuriy Yurkovskyy Date Chunfeng Zhou Date State of NEW YORK) : ss County of Steuben) On the 2014 day of 2018, before me personally came Daniel Warren Hawtof known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same. **PENNY L SEMPLER** Notary Public, State of New York Notary Public No.01SE6198949 Qualified in Chemung County State of NE Commission Expires January 5, 20 County of Steuben) On the day of 2018, before me personally came Douglas Edward McElheny known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same. Notary Public State of NEW YORK) 5 88 County of Steuben) On the 26th day of 12000000 2018, before me personally came Jiandong Meng known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same. **PENNYL SEMPLER** Notary Public, State of New York Notary Public No.01SE6198949 Qualified in Chemung County Commission Expires January 5, 20 State of NEW 1 SS. County of Steuben) On the 12 th day of 1/ arch 2018, before me personally came Elias Panides known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same. **PENNYLSEMPLER** Notary Public, State of New York Zwary Public No.01SE6198949 Qualified in Chemung County Commission Expires January 5, 20 Receipt acknowledged on behalf of Corning Incorporated by Dated: 3 28/1 By Name: s R. Beall чUЙ Title: Vice President & Chief IP Counsel

State of NEW YORK) SS County of Steuben) On the <u>Association</u> 2018 before me personally came Gaozhu Peng known to be the person described in and who executed the for**Events** hubble before me personally came Gaozhu Peng known to be the person described in On the / day of / W Notary Public, State of New York No. 01SE6198949 Secretar-Elsah 1 Qualified in Chemung County Notary Public State of NEW Commission Expires January 5, 20. County of Steuben) On the 274 day of 22/2018, before me personally came Randy Lee Rhoads known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same. PENNY L SEMPLER <u>LARA</u> Notary Public, State of New York No.01SE6198949 Notary Public Qualified in Chemung County State of NEW Commission Expires January 5, 20 County of Steuben

On the _____ day of _____ 2018, before me personally came Yuriy Yurkovskyy known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Notary Public

State of NEW YORK)

: \$\$

County of Steuben)

On the <u>2</u> day of <u>2</u> <u>2018</u>, before me personally came **Chunfeng Zhou** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.



<u>Venny Z. Sempter</u> Notary Public

Receipt acknowledged on behalf of Corning Incorporated by:

By:

Name: Thomas R. Beall Title: Vice President & Chief IP Counsel

Dated: 3/28/18

ASSIGNMENT

FOR VALUE RECEIVED, I, as a below named inventor, hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, including the right of priority, for all countries, in and to certain inventions relating to **METHODS AND APPARATUSES FOR CONTROLLING GLASS TUBE TAPER**, such inventions being generally described in an application for an international patent provided by the International Convention for the Protection of Industrial Property, as amended, or other form of protection for said inventions filed by it or them, and for which said application for International Patent was filed under;

PCT Application No. <u>PCT/US2017/063906</u> filed <u>11/30/2017</u> claiming priority of

☑ United States Provisional Serial No. <u>62/428.005 filed 11/30/2016</u>

and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

I hereby authorize and request the attorney(s) and/or agent(s) empowered to act on **CORNING's** behalf in the aforementioned application, to insert above the filing date and application number of said application, when known.

I request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

I agree that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

I authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at Pittsburgh, Pennsylvania this

Date

Adam Charles Berkey

State of Pennsylvania) SS.

County of

On the _ day of _ 2018, before me personally came Adam Charles Berkey known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

NOW YORK Notary Public Signed at , Taxas This Eliot Geathers Date State of Texas

County of

On the $\frac{24}{24}$ day of $\frac{100}{100}$ day of $\frac{100}{100}$ 2018, before me personally came Eliot Geathers known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

PENNY L SEMPLER <u>nan K. J</u> Notary Public, State of New York No.01SE6198949 Qualified in Chemung County Commission Expires January 5, 20

Signed at CORNING, NEW YORK, this

Date

Daniel Warren Hawtof

Douglas Edward McElheny

Date

Date

Jiandong Meng

Date

Ellas Panides

Receipt acknowledged on behalf of Corning Incorporated by:

By: Name Thomas R. Beall

Title Vice President & Chief IP Counsel

Dated: 3/22/18

PCT Attorney Docket No.: SP16-268

Date	Gaozhu Peng
Date	Randy Lee Rhoads
Date	Yuriy Yurkovskyy
Date	Chunfeng Zhou
State of NEW YORK) : ss. County of Steuben) On the day of described in and who executed t	2018, before me personally came Daniel Warren Hawtof known to be the person be foregoing instrument, and acknowledged that they executed the same.
State of NEW YORK) : ss. County of Stauben) $C H \in rm N$ M On the 9 day of MAI	Notary Public
person described in and who ex State of NEW YORK) : ss. County of Steuben) On the day of	2018, before me personally came Jiandong Meng known to be the Mental Michael Michael Michael Mental Michael Mic
State of NEW YORK) : ss.	Notary Public
County of Steuben) On the day of	2018, before me personally came Elias Panides known to be the person described in instrument, and acknowledged that they executed the same.
Receipt acknowledged on behalf of C	
Xn Beel	

Thomas R. Beall Vice President & Chief IP Counsel By:____ Name: Title:

State of NEW YORK) (ss.

County of Steuben)

On the ______ day of ______ 2018, before me personally came Gaezhu Peng known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Notary Public

State of NEW YORK)

County of Steuben)

On the ______ day of ______ 2018, before me personally came Randy Lee Rhoads known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Notary Public

State of NEW YORK) > ss. County of Steathers)

On the _____ day of ______ 2018, before me personally came Yarly Yarkovskyy known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Notary Public

State of NEW YORK) : 38. County of Steuben)

casing a caused

On the ______ day of _______ 2018, before the personally came Chanfeng Zhou known to be the person described in and who executed the foregoing instrument, and schoowledged that they executed the same.

Notary Public

Receipt acknoppledged on behalf of Country Decerporated by:

8y., Thomas 2. Reall Name:

Name: Thomas R. Healt Title: Vice President & Chief IP Courses Danes >122/12

PATENT REEL: 049282 FRAME: 0170

RECORDED: 05/24/2019