505163110 10/29/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JASON ALLEN BROWN	06/20/2018
THOMAS DALE KETCHAM	06/20/2018
DANIEL ALOYSIUS NOLAN	06/21/2018
WAGEESHA SENARATNE	06/25/2018
JUN YANG	06/22/2018
HAITAO ZHANG	06/20/2018

RECEIVING PARTY DATA

Name:	CORNING INCORPORATED
Street Address:	ONE RIVERFRONT PLAZA
City:	CORNING
State/Country:	NEW YORK
Postal Code:	14831

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16036297

CORRESPONDENCE DATA

Fax Number:

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: 607-974-0084

Email: lynnsm@corning.com

Correspondent Name: CORNING INCORPORATED

Address Line 1: SP-TI-3-1

Address Line 4: CORNING, NEW YORK 14831

ATTORNEY DOCKET NUMBER:	SP16-155T
NAME OF SUBMITTER:	SHANNON M LYNN
SIGNATURE:	/Shannon M Lynn/
DATE SIGNED:	10/29/2018

Total Attachments: 3

PATENT REEL: 047335 FRAME: 0629

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PATENT REEL: 047335 FRAME: 0630

U.S. Attorney Docket No.: SP16-155T

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, for all countries, in and to certain inventions relating to a QUANTUM MEMORY SYSTEMS AND OUANTUM REPEATER SYSTEMS COMPRISING **OPTICAL** AND **POLYCRYSTALLINE** CERAMIC **DEVICES METHODS** MANUFACTURING THE SAME, such inventions being generally described in an application for Letters Patent of the United States executed on

DATE	6-20-18
DATE	06-25-18
DATE	6-21-18
DATE	06/25/18
DATE	6-22+18
DATE	6-20-18

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 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.

Revised: March 20, 2018

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 CORNING, NEW YORK	this
6-20-18	fund flu
Date	Jason Allen Brown
$\frac{06-20-18}{\text{Date}}$	Monal Dalo Ketchen Thomas Dale Ketcham
6-21-18 Date	Daniel Aloysius Nolan
06/25/78 Date	Wageesha Senareme
<u>6/22/2018</u> Date	Jun Yang TW YAW
6/20/2018 Date	Haitao Zhang Haitao Zhang
State of NEW YORK)	
: ss. County of Steuben)	
	2018, before me personally came Jason Allen Brown known to be the person to instrument, and acknowledged that they executed the same.
	a of the
BETH A. FALCO NOTARY PUBLIC, STATE OF N Registration No. 01FA63: Qualified in Steuben Co Commission Expires April	winty
State of NEW YORK)	
: ss. County of Steuben)	
On the 25 day of 1415 2 described in and who executed the foreg	018, before me personally came Thomas Dale Ketcham known to be the personal poing instrument, and acknowledged that they executed the same.
BETH A. FALCI NOTARY PUBLIC, STATE OF Registration No. 01FA6 Qualified in Steuben C Commission Expires Apri	NEW YORK 373141 Notary Public Notary Public

Revised: March 20, 2018

U.S. Attorney Docket No.: SP16-155T

State of NEW YORK)
: ss. County of Steuben)
On the 21 day of 12018, before me personally came Daniel Aloysius Nolan known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.
State of NEW YORK) : ss. County of Steuben) LuAnne Wheeler Notary Public, State of New York Qualified in Steuben County, No. 01WH6338409 My Commission Expires March 14,
On the <u>25†</u> day of <u>Junu</u> 2018, before me personally came Wageesha Senaratne known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.
LuAnne Wheeler Notary Public, State of New York Qualified in Steuben County, No. 01WH6338409 My Commission Expires March 14, 2020 My Commission Expires March 14, 2020
State of NEW YORK) : ss. County of Steuben)
On the 22 day of JULIE 2018, before me personally came Jun Yang known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same. BETH A. FALCO
State of NEW YORK) : ss.
County of Steuben)
On the 20 day of 2018, before me personally came Haitao Zhang 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 Registration No. 01FA6373141 Qualified in Steuben County Commission Expires April 2, 2022

Revised: March 20, 2018

PATENT REEL: 047335 FRAME: 0633