502411629 07/09/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ilya Zwieback	06/25/2013
Thomas E. Anderson	06/25/2013
Andrew E. Souzis	06/25/2013
Gary E. Ruland	06/25/2013
Avinash Gupta	06/25/2013
Varatharajan Rengarajan	06/25/2013
Ping Wu	06/25/2013
Xueping Xu	06/25/2013

RECEIVING PARTY DATA

Name:	II-VI Incorporated
Street Address:	375 Saxonburg Boulevard
City:	Saxonburg
State/Country:	PENNSYLVANIA
Postal Code:	16056

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	13867198
PCT Number:	US1337554

CORRESPONDENCE DATA

Fax Number: 4129455933

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 412-471-8815

Email: assignments@webblaw.com

Correspondent Name: The Webb Law Firm

Address Line 1: 420 Ft. Duquesne Blvd., Suite 1200

Address Line 2: One Gateway Center

PATENT

REEL: 030756 FRAME: 0595

F \$80.00 1386/19

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Address Line 4: Pittsburgh, PENNSYLVANIA 15222	
ATTORNEY DOCKET NUMBER:	4397-131376/130734
NAME OF SUBMITTER:	Richard L. Byrne, Reg. No. 28,498
Signature:	/Richard L. Byme/
Date:	07/09/2013
Total Attachments: 7 source=131376Recordation#page1.tif source=131376Assignment#page1.tif source=131376Assignment#page2.tif source=131376Assignment#page3.tif source=131376Assignment#page4.tif source=131376Assignment#page5.tif source=131376Assignment#page6.tif	

PATENT REEL: 030756 FRAME: 0596

OWB No. 0651-0027 (exp. 6/30/2006)	
RECORDATION FO	
PATENT	SUNLY
To the Director of the U.S. Patent and Trademark Office: Pleas	e record the attached documents or the new address(es) below.
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)
Ilya Zwieback Avinash K. Gupta	Name: II-VI INCORPORATED
Thomas E. Anderson Varatharajan Rengarajan Andrew E. Souzis Ping Wu	Internal Address:
Andrew E. Souzis Fing wu Gary E. Ruland Xueping Xu	
Additional name(s) of conveying party(ies) attached? Yes 🗸 No	
3. Nature of conveyance/Execution Date(s):	Street Address: 375 Saxonburg Boulevard
Execution Date(s) June 25, 2013	
Assignment Merger	
Security Agreement Change of Name	City: Saxonburg
Joint Research Agreement	State: PA
Government Interest Assignment	Country: Zip: 16056
Executive Order 9424, Confirmatory License	Country:Zip: 16056
Other	Additional name(s) & address(es) attached? Yes Vo
4. Application or patent number(s):	document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
13/867,198	
PCT/US13/37554	
Additional numbers att	
5. Name and address to whom correspondence	6. Total number of applications and patents
concerning document should be mailed:	involved: 2
Name: Richard L. Byrne	7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>80</u>
Internal Address: The Webb Law Firm	✓ Authorized to be charged by credit card
	Authorized to be charged to deposit account
Street Address: One Gateway Center	Enclosed
Street Address: One Galeway Center 420 Ft. Duquesne Blvd., Ste 1200	None required (government interest not affecting title)
	8. Payment Information
City: Pittsburgh	a. Credit Card Last 4 Numbers 1916
State: <u>PA</u> Zip: <u>15222</u>	Expiration Date 05/2015
Phone Number: 412-471-8815	b. Deposit Account Number 23-0650
Fax Number: 412-945-5933	
Email Address: assignments@webblaw.com	Authorized User Name
9. Signature: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	July 9, 2013
Signature	Date
Richard L. Byrne, Reg. No. 28,498	Total number of pages including cover 7
Name of Person Signing	sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Doc. No. 2NP5226

ASSIGNMENT

WHEREAS, as a below named inventor, I have invented certain new and useful improvements in LARGE DIAMETER, HIGH QUALITY SIC SINGLE CRYSTALS. METHOD AND APPARATUS (Invention Title) for which a United States Provisional Patent application was filed on and bears Application Number (hereinafter "said application"). AND/OR for which I have this day executed an application for a United States Patent (hereinafter

"said application").

AND/OR

| x | for which an application for a United States Patent was filed on 04/22/2013 (mm/dd/yyyy) and bears Application Number 13/867,198 (hereinafter "said application").

AND/OR

| x | for which an international patent application was filed under the Patent Cooperation Treaty on 04/22/2013 (mm/dd/yyyy), bearing Application No. PCT/US13/37554 (hereinafter "said application").

AND, WHEREAS, II-VI Incorporated, a corporation of Pennsylvania, having a place of business at 375 Saxonburg Boulevard, Saxonburg, Pennsylvania 16056, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged, I as the inventor or as one of the inventors, hereinafter the assignor(s), do hereby assign, sell and transfer unto said assignee the full and exclusive right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions. reissues, continuations, continuations-in-part, renewals and/or extensions thereof. assignment extends to the full ends of the terms of these applications and patents as fully and entirely as the same would have been held and enjoyed by me had this Assignment not been made.

I covenant that I am the lawful owner(s) of said application, inventions and improvements, that the same are unencumbered, that no license has been granted to make, use or vend the said inventions or improvements or any of them, and that I have the full right to make this Assignment.

And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request but without expense to me,

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testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said assignee or by counsel for said assignee to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This Assignment shall be binding upon my heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors and/or assigns, as the case may be, of said assignee.

1. FULL NAME OF ASSIGNOR: Ilya Zwieback	RESIDENCE: Township of Washington, New Jersey
EXECUTED this 25 day of June	,201 <u>3</u>
STATE of New Tersey) COUNTY of Marris	CONTINE
On this $\frac{\partial 5}{\partial AV}$ day of $\frac{1}{\partial AV}$, in the year notary public, personally appeared	Tyg Zwiebale NOTARY PUBLIC NAME,
proved on the basis of satisfactory evidence instrument, and acknowledged he/she executed t	to be the person whose name is subscribed to this he same. Witness my hand and official seal,
	MYRNA MORALES MYRNA MORALES Notary Public State of New Jersey My Commission Expires Mer 30, 2017 L

x Checked Box indicates 4 additional page(s) for inventor signatures.

Page 2 of 6

2. FULL NAME OF ASSIGNOR: RESIDENCE: Thomas E. Anderson Morristown, New Jersey
EXECUTED this 25 day of Some, 2013 Thomas (And
STATE of New Tersey
COUNTY of Maris
On this 25 day of June, in the year 2013, before me Myrng Movelles,
On this 25 day of 5 une, in the year 2013, before me Myrng Moveles a notary public, personally appeared Thomas E. Maleson, NAME OF DOCUMENT SIGNER
proved on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged he/she executed the same. Witness my hand and official seal.
MYRMA MORALES Notary Public State of New Jersey
My Commission Expires Mar 30, 2017
3. FULL NAME OF ASSIGNOR: RESIDENCE: Andrew E. Souzis Hawthorne, New Jersey
Andrew E. Souzis Hawthorne, New Jersey
EXECUTED this 25 day of June, 2013
SIGNATURE
STATE of New Jersey
SIGNATURE STATE of New Tersey COUNTY of Marris
STATE of New Jersey
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SIGNATURE STATE of New Sersey COUNTY of Marris On this 25 day of Sune, in the year 2013, before me Myrne, Marales Andrew E. Souzis,
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SIGNATURE STATE of

Page 3 of 6

4. FULL NAME OF ASSIGNOR: Gary B. Ruland	RESIDENCE: Morris Plains, New Jersey
EXECUTED this 25 day of Sime	,2013
STATE of New Sersey COUNTY of Morris On this 25 day of MONTH a notary public, personally appeared	SIGNATURE AT ZEJ3, before me Myrny Movey C5, YEAR ROTARY PUBLIC NAME NAME OF DOCUMENT SIGNER to be the person whose name is subscribed to this he same. Witness my hand and official seal.
	MYRNA MORALES MYRNA MORALES Rotery Public State of New Jersey My Commission Expires Mar 30, 2017 L
F. PLUT NIAME OF A COLONOR.	
5. FULL NAME OF ASSIGNOR: Avinash K. Gupta EXECUTED this 25 day of 5,	RESIDENCE: Basking Ridge, New Jersey 201-3
Avinash K. Gupta EXECUTED this 25 day of 5,	Basking Ridge, New Jersey
Avinash K. Gupta EXECUTED this 25 day of 5, STATE of Mey (15) COUNTY of Mey (15) On this 25 day of 5, in the year a notary public, personally appeared	Basking Ridge, New Jersey 2013 SIGNATURE SIGNATURE WOTARY PUBLIC NAME NOTARY PUBLIC NAME NAME OF DOCUMENT SIGNER TO be the person whose name is subscribed to this

6. FULL NAME OF ASSIGNOR;	RESIDENCE;
Varatharajan Rengarajan	Flanders, New Jersey
EXECUTED this 25 day of Sunce	,2013
	Signature
STATE of New Sersey)	
STATE of New Serson) COUNTY of Marris	
On this 25 day of Sunt, in the ye	ar 2013, before me huyva Marcure
On this 25 day of 5 me, in the year notary public, personally appeared 0	YEAR NOTARY PUBLIC NAME
	NAME OF DOCUMENT SIGNER (
instrument, and acknowledged he/she executed t	to be the person whose name is subscribed to this he same. Witness my hand and official seal,
	·
	NOTARY PUBLIC
	MYRNA MORALES E
	Notary Public A State of New Jersey
	My Commission Expires Mar 30, 2017

7. FULL NAME OF ASSIGNOR:	RESIDENCE;
Ping Wu	Warren, New Jersey
EXECUTED this 75 day of June,	201 <u>3</u> Li Uh
em P	SIGNATURE
COUNTY of MONYI'S	
COUNTY of MONYIS	à t
On this 25 day of Tune, in the year	ar 2013, before me Myrna Mnecles
On this 25 day of Twe, in the year a notary public, personally appeared	YEAR NOTARY PUBLIC NAME
proved on the basis of satisfactory evidence t	NAME OF DOCUMENT SIGNER to be the person whose name is subscribed to this
instrument, and acknowledged he/she executed the	
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Wolary Public	Motory Public State of New Jersey
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	CLUTETY PUDIT
and the same of th	State of New Jersey Commission Expires Mar 30, 2017
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PATENT REEL: 030756 FRAME: 0602

DOMESTIC Application No. 13/867,198 Attorney Docket No. 4397-131376

8. FULL NAME OF ASSIGNOR: Xueping Xu	RESIDENCE; Westport, Connecticut
EXECUTED this 75 day of 3 me, 2	201_3 SIGNATURE
STATE of New Tersey) COUNTY of Marri's	DIGITAL GRAD
On this 25 day of 5 , in the year a notary public, personally appeared 1	report, xu
proved on the basis of satisfactory evidence to instrument, and acknowledged he/she executed the	NAME OF DOCUMENT SIGNER be the person whose name is subscribed to this same. Witness my hand and official seal.
	MYRNA MORALES Motary Public State of New Jersey My Commission Expires Mar 30, 2017 L

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RECORDED: 07/09/2013

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PATENT REEL: 030756 FRAME: 0603