

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
<b>CONVEYING PARTY DATA</b>																			
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Ilya Zwieback</td> <td>06/25/2013</td> </tr> <tr> <td>Thomas E. Anderson</td> <td>06/25/2013</td> </tr> <tr> <td>Andrew E. Souzis</td> <td>06/25/2013</td> </tr> <tr> <td>Gary E. Ruland</td> <td>06/25/2013</td> </tr> <tr> <td>Avinash Gupta</td> <td>06/25/2013</td> </tr> <tr> <td>Varatharajan Rengarajan</td> <td>06/25/2013</td> </tr> <tr> <td>Ping Wu</td> <td>06/25/2013</td> </tr> <tr> <td>Xueping Xu</td> <td>06/25/2013</td> </tr> </tbody> </table>		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
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<b>RECEIVING PARTY DATA</b>																			
<table border="1"> <tr> <td>Name:</td> <td>II-VI Incorporated</td> </tr> <tr> <td>Street Address:</td> <td>375 Saxonburg Boulevard</td> </tr> <tr> <td>City:</td> <td>Saxonburg</td> </tr> <tr> <td>State/Country:</td> <td>PENNSYLVANIA</td> </tr> <tr> <td>Postal Code:</td> <td>16056</td> </tr> </table>		Name:	II-VI Incorporated	Street Address:	375 Saxonburg Boulevard	City:	Saxonburg	State/Country:	PENNSYLVANIA	Postal Code:	16056								
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<b>PROPERTY NUMBERS Total: 2</b>																			
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<b>CORRESPONDENCE DATA</b>																			
Fax Number:	4129455933																		
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																			
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																		

OP \$80.00 13867198

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. Byrne/

Date: 07/09/2013

**Total Attachments: 7**

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**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 \_\_\_\_\_ (mm/dd/yyyy) 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

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

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. Such 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.

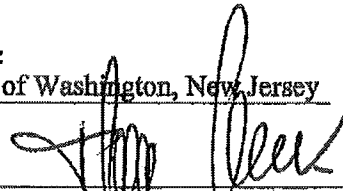
And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request but without expense to me,

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, 2013

  
\_\_\_\_\_  
SIGNATURE

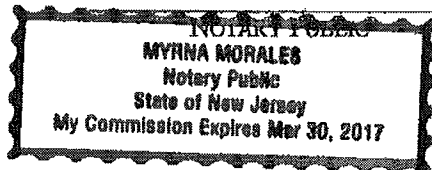
STATE of New Jersey

COUNTY of Morris

On this 25 day of June, in the year 2013, before me Myrna Morales  
DAY MONTH YEAR NOTARY PUBLIC NAME

a notary public, personally appeared Ilya Zwieback,  
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.



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

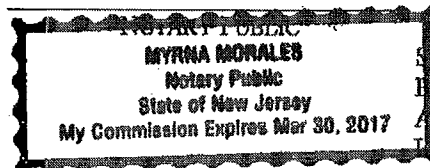
2. FULL NAME OF ASSIGNOR: Thomas E. Anderson RESIDENCE: Morristown, New Jersey

EXECUTED this 25 day of June, 2013 Thomas E. Anderson  
SIGNATURE

STATE of New Jersey  
COUNTY of Morris

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NAME OF DOCUMENT SIGNER

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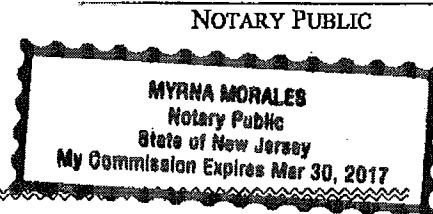
3. FULL NAME OF ASSIGNOR: Andrew E. Souzis RESIDENCE: Hawthorne, New Jersey

EXECUTED this 25 day of June, 2013 Andrew E. Souzis  
SIGNATURE

STATE of New Jersey  
COUNTY of Morris

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4. FULL NAME OF ASSIGNOR: Gary E. Ruland RESIDENCE: Morris Plains, New Jersey

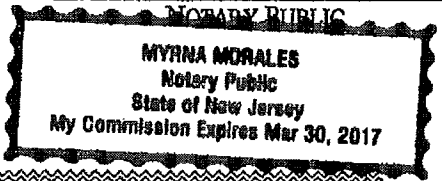
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[Signature]  
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5. FULL NAME OF ASSIGNOR: Avinash K. Gupta RESIDENCE: Basking Ridge, New Jersey

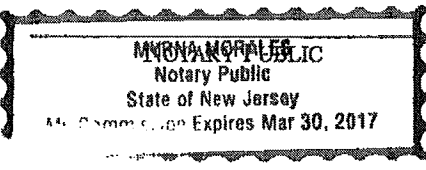
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[Signature]  
SIGNATURE

STATE of New Jersey  
COUNTY of Morris

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a notary public, personally appeared Avinash K. Gupta,  
DAY MONTH YEAR NOTARY PUBLIC NAME NAME OF DOCUMENT SIGNER

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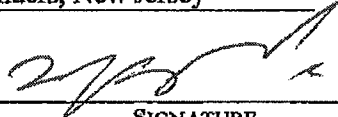


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6. FULL NAME OF ASSIGNOR:  
Varatharajan Rengarajan

RESIDENCE:  
Flanders, New Jersey

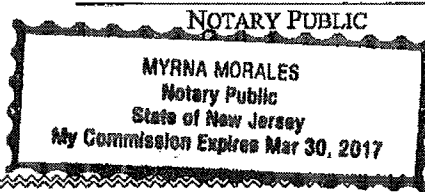
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7. FULL NAME OF ASSIGNOR:  
Ping Wu

RESIDENCE:  
Warren, New Jersey

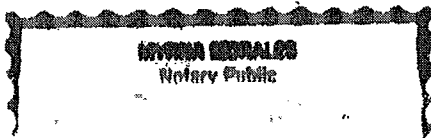
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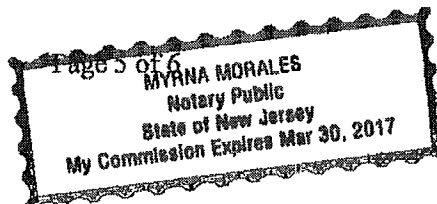
On this 25 day of June, in the year 2013, before me Myrna Morales  
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NOTARY PUBLIC  
MYRNA MORALES  
Notary Public  
State of New Jersey

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8. FULL NAME OF ASSIGNOR: Xueping Xu RESIDENCE: Westport, Connecticut

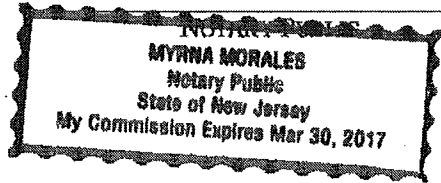
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