

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT7928242

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
AVINASH K GUPTA	12/23/2001
ILYA ZWIEBACK	01/19/2012
EDWARD SEMENAS	01/19/2012
MARCUS L GETKIN	01/15/2012
PATRICK D FLYNN	01/15/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	II-VI INCORPORATED
<b>Street Address:</b>	375 SAXONBURG BLVD
<b>City:</b>	SAXONBURG
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	16056
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17447742
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)420-2200
<i>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.</i>	
<b>Phone:</b>	2024202200
<b>Email:</b>	patents@blankrome.com, judy.yeddo@blankrome.com
<b>Correspondent Name:</b>	BLANK ROME LLP - II-VI
<b>Address Line 1:</b>	1825 EYE STREET NW
<b>Address Line 4:</b>	WASHINGTON, D.C. 20006-5403
<b>ATTORNEY DOCKET NUMBER:</b>	150287-04014
<b>NAME OF SUBMITTER:</b>	JUDY YEDDO
<b>SIGNATURE:</b>	/Judy Yeddo/
<b>DATE SIGNED:</b>	04/29/2023
<b>Total Attachments: 4</b> source=Assignment_1#page1.tif	

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DOMESTIC  
Application No. 13/255,151  
Attorney Docket No. 4397-113095

**ASSIGNMENT**

WHEREAS, as a below named inventor, I have invented certain new and useful improvements in

**SIC SINGLE CRYSTAL SUBLIMATION GROWTH METHOD AND APPARATUS**

(Invention Title)

for which a United States Provisional Patent application was filed on 03/26/2009 (mm/dd/yyyy) and bears Application Number 61/163,668 (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 03/25/2010 (mm/dd/yyyy) and bears Application Number 13/255,151 (hereinafter "said application").

AND/OR

for which an international patent application was filed under the Patent Cooperation Treaty on 03/25/2010 (mm/dd/yyyy), bearing Application No. PCT/US2010/028636 (hereinafter "said application").

AND, WHEREAS, **II-VI INCORPORATED**, a corporation of the **Commonwealth 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,

DOMESTIC  
Application No. 13/255,151  
Attorney Docket No. 4397-113095

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: Avinash K. GUPTA RESIDENCE: Basking Ridge, New Jersey

EXECUTED this 23 day of December, 2011

STATE of New Jersey  
COUNTY of Essex

[Signature]  
SIGNATURE

On this 23 day of Dec, in the year 2011, before me Deborah H. Manning  
DAY MONTH YEAR NOTARY PUBLIC NAME  
a notary public, personally appeared Avinash K. Gupta Avinash K. GUPTA,  
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.

[Signature]  
NOTARY PUBLIC

SEAL  
DEBORAH H. MANNING  
NOTARY PUBLIC  
STATE OF NEW JERSEY  
MY COMMISSION EXPIRES NOVEMBER 10, 2015  
LD # 42471

Checked Box indicates 2 additional page(s) for inventor signatures.

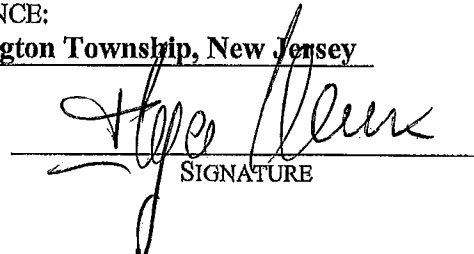
2. FULL NAME OF ASSIGNOR:

Ilya ZWIEBACK

RESIDENCE:

Washington Township, New Jersey

EXECUTED this 19 day of January, 2012

  
SIGNATURE

STATE of New Jersey )

COUNTY of Essex )

On this 19 day of January, in the year 2012, before me Susan Devlin,  
DAY MONTH YEAR NOTARY PUBLIC NAME

a notary public, personally appeared

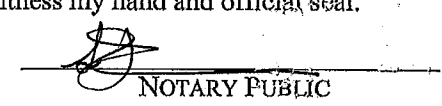
Ilya ZWIEBACK

NAME OF DOCUMENT SIGNER

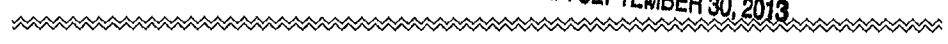
proved on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged he/she executed the same. Witness my hand and official seal.

SUSANNE M DEVLIN  
NOTARY PUBLIC STATE OF NEW JERSEY  
QUALIFIED IN ESSEX COUNTY  
COMM. EXP. SEPTEMBER 30, 2013

SUSANNE M DEVLIN  
NOTARY PUBLIC STATE OF NEW JERSEY  
ID NO. 2378495  
QUALIFIED IN ESSEX COUNTY  
COMM. EXP. SEPTEMBER 30, 2013

  
NOTARY PUBLIC

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3. FULL NAME OF ASSIGNOR:

Edward SEMENAS

RESIDENCE:

Allentown, Pennsylvania

EXECUTED this 19 day of January, 2012

  
SIGNATURE

STATE of Pennsylvania )

COUNTY of Lehigh )

On this 19 day of January, in the year 2012, before me Susanne Devlin,  
DAY MONTH YEAR NOTARY PUBLIC NAME

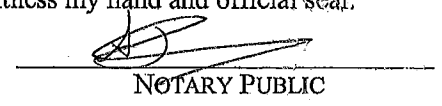
a notary public, personally appeared

Edward SEMENAS

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.

SUSANNE M DEVLIN  
NOTARY PUBLIC STATE OF NEW JERSEY  
ID NO. 2378495  
QUALIFIED IN ESSEX COUNTY  
COMM. EXP. SEPTEMBER 30, 2013

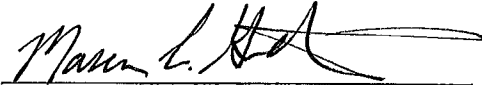
  
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DOMESTIC  
Application No. 13/255,151  
Attorney Docket No. 4397-113095

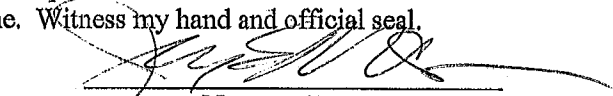
4. FULL NAME OF ASSIGNOR: Marcus L. GETKIN RESIDENCE: Flanders, New Jersey

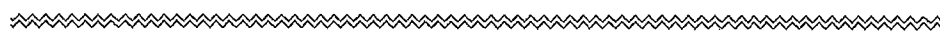
EXECUTED this 15<sup>th</sup> day of January, 2012   
SIGNATURE

STATE of New Jersey  
COUNTY of Morris

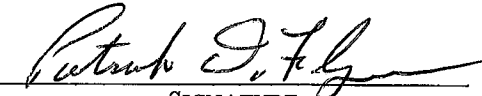
On this 15<sup>th</sup> day of January, in the year 2012, before me Jenny E. Minto,  
DAY MONTH YEAR NOTARY PUBLIC NAME  
a notary public, personally appeared Marcus L. GETKIN,  
NAME OF DOCUMENT SIGNER

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.

  
NOTARY PUBLIC  
**JENNY E. MINTO**  
A Notary Public of New Jersey  
My Commission Expires JULY 1, 2016  
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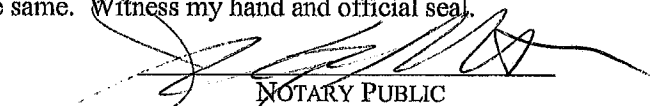
5. FULL NAME OF ASSIGNOR: Patrick D. FLYNN RESIDENCE: Morris Plains, New Jersey

EXECUTED this 15<sup>th</sup> day of JANUARY, 2012   
SIGNATURE

STATE of New Jersey  
COUNTY of Morris

On this 15<sup>th</sup> day of January, in the year 2012, before me Jenny E. Minto,  
DAY MONTH YEAR NOTARY PUBLIC NAME  
a notary public, personally appeared Patrick D. FLYNN,  
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.

  
NOTARY PUBLIC  
**JENNY E. MINTO**  
A Notary Public of New Jersey  
My Commission Expires JULY 1, 2016  
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