

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3552723

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the RECEIVING PARTY DATA / ASSIGNEE previously recorded on Reel 036615 Frame 0492. Assignor(s) hereby confirms the EMCORE CORPORATION 10420 RESEARCH ROAD, S.E., ALBUQUERQUE, NEW MEXICO 87123.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BOYANG LIU	09/16/2015
SHENGBO XU	09/03/2015
ANDREW JOHN DAIBER	09/03/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EMCORE CORPORATION
<b>Street Address:</b>	10420 RESEARCH ROAD, S.E.
<b>City:</b>	ALBUQUERQUE
<b>State/Country:</b>	NEW MEXICO
<b>Postal Code:</b>	87123
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	29445421
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(612)305-1228
<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>	612-305-1219
<b>Email:</b>	jinouefrancis@mrsgs.com
<b>Correspondent Name:</b>	MATTHEW C. GOEDEN
<b>Address Line 1:</b>	111 THIRD AVENUE SOUTH
<b>Address Line 2:</b>	SUITE 350
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55401
<b>ATTORNEY DOCKET NUMBER:</b>	EMD2108/MRG513.00630101
<b>NAME OF SUBMITTER:</b>	MATTHEW C. GOEDEN
<b>SIGNATURE:</b>	/Matthew C. Goeden/
<b>DATE SIGNED:</b>	10/01/2015
<b>Total Attachments: 5</b>	

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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT3535680

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BOYANG LIU	09/16/2015
SHENGBO XU	09/03/2015
ANDREW JOHN DAIBER	09/03/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NEOPHOTONICS CORPORATION
<b>Street Address:</b>	2911 ZANKER ROAD
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95134
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	29445421
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)321-5018
<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>	408-678-1893
<b>Email:</b>	EZMINA.MOHAMMED@NEOPHOTONICS.COM
<b>Correspondent Name:</b>	EZMINA MOHAMMED
<b>Address Line 1:</b>	2911 ZANKER ROAD
<b>Address Line 4:</b>	SAN JOSE, CALIFORNIA 95134
<b>ATTORNEY DOCKET NUMBER:</b>	EMD2108
<b>NAME OF SUBMITTER:</b>	EZMINA MOHAMMED
<b>SIGNATURE:</b>	/S/ EZMINA MOHAMMED
<b>DATE SIGNED:</b>	09/21/2015
<b>Total Attachments: 4</b>	
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**ASSIGNMENT**

Whereas we, Boyang Liu, Yinan Wu, Shengbo Xu, and Andrew John Daiber, with residency as indicated below; have made an invention in

**SUPPORT FOR A BEAM SPLITTER**

Filed: February 12, 2013

Application No.: 29/445,421

and executed an application for Letters Patent of the United States of America based thereon;

Now, therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto Emcore Corporation ("Company"), a corporation of Delaware, having its principal office at 10420 Research Road, S.E., Albuquerque, New Mexico 87123, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment by the Company), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to Emcore Corporation as the assignee of the entire right, title, and interest therein.

In witness whereof, I have hereunto signed my name on the day and year set forth below.

*[Signature pages to follow]*

Assignment

Page 2 of 5

Application No.: 29/445,421

Filed: February 12, 2013

For: SUPPORT FOR A BEAM SPLITTER

Boyang Liu  
Name: Boyang Liu  
Address: 40655 Mission Boulevard, Fremont, CA 94539, USA

Date 09/16/2015

STATE OF California )  
COUNTY OF Alameda ) ss.

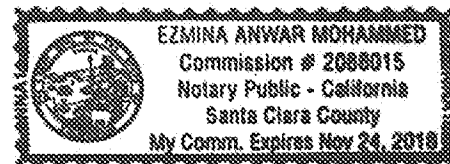
On September 16, 2015 before me, Ezmina A. Mohammed, Notary Public, personally appeared  
Date Boyang Liu Insert name and title of the officer  
Boyang Liu, who proved to me on the basis of

Name(s) of Signer(s)  
satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and  
acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by  
his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted,  
executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is  
true and correct.

WITNESS my hand and official seal.

Ezmina A. Mohammed  
Signature of Notary Public



Seal

Assignment

Page 4 of 5

Application No.: 29/445,421

Filed: February 12, 2013

For: SUPPORT FOR A BEAM SPLITTER



Date

09/03/2015

Name: Shengbo Xu

Address: 6332 Quartz Place, Milpitas, CA 94560, USA

STATE OF CALIFORNIA )

COUNTY OF SANTA CLARA ) ss.

On September 3, 2015 before me, Ezmina A. Mohammed, Notary Public, personally appeared  
Date Insert name and title of the officer

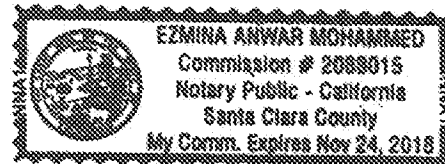
Shengbo Xu, who proved to me on the basis of  
Name(s) of Signer(s)

satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Ezmina A. Mohammed  
Signature of Notary Public  
Notary Public



Seal

Assignment

Page 5 of 5

Application No.: 29/445,421

Filed: February 12, 2013

For: SUPPORT FOR A BEAM SPLITTER



Date 9/3/15

Name: Andrew John Dalber

Address: 425 Lakeview Way, Emerald Hills, CA 94062, USA

STATE OF CALIFORNIA )

) ss.

COUNTY OF ALAMEDA )

On September 3, 2015 before me, EZMINA A. MOHAMMED, Notary Public, personally appeared

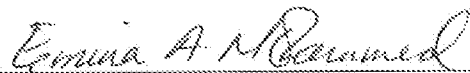
Date ANDREW JOHN DALBER Insert name and title of the officer

ANDREW JOHN DALBER, who proved to me on the basis of  
Name(s) of Signer(s)

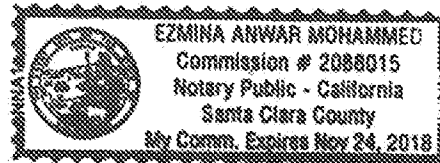
satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature of Notary Public



Seal