

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Pallab Bhattacharya</td> <td>12/18/2012</td> </tr> <tr> <td>Meng Zhang</td> <td>12/19/2012</td> </tr> </tbody> </table>		Name	Execution Date	Pallab Bhattacharya	12/18/2012	Meng Zhang	12/19/2012						
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>The Regents of the University of Michigan</td> </tr> <tr> <td>Street Address:</td> <td>1600 Huron Parkway, 2nd Floor</td> </tr> <tr> <td>Internal Address:</td> <td>Office of Technology Transfer</td> </tr> <tr> <td>City:</td> <td>Ann Arbor</td> </tr> <tr> <td>State/Country:</td> <td>MICHIGAN</td> </tr> <tr> <td>Postal Code:</td> <td>48109-2590</td> </tr> </table>		Name:	The Regents of the University of Michigan	Street Address:	1600 Huron Parkway, 2nd Floor	Internal Address:	Office of Technology Transfer	City:	Ann Arbor	State/Country:	MICHIGAN	Postal Code:	48109-2590
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
<p>Fax Number: 3124740448</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 3124746300</p> <p>Email: docket@marshallip.com</p> <p>Correspondent Name: Paul B. Stephens</p> <p>Address Line 1: 233 South Wacker Drive</p> <p>Address Line 2: Suite 6300</p> <p>Address Line 4: Chicago, ILLINOIS 60606</p>													
ATTORNEY DOCKET NUMBER:	30275/46787A												
NAME OF SUBMITTER:	Paul B. Stephens												
<p>Total Attachments: 4</p> <p>source=46787A_assign#page1.tif</p> <p>source=46787A_assign#page2.tif</p> <p>source=46787A_assign#page3.tif</p> <p>source=46787A_assign#page4.tif</p>													

OP \$40.00 13721930

## ASSIGNMENT

Serial No: 13/721,930

Filed: December 20, 2012

Title: GaN-Based Quantum Dot VISIBLE Laser

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign to THE REGENTS OF THE UNIVERSITY OF MICHIGAN, Office of Technology Transfer, 1600 Huron Parkway, 2nd Floor, Ann Arbor, Michigan 48109-2590 (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for letters patent of the United States, and in said application and any and all other applications, both in the United States and in other countries, which the undersigned may file or be named as an inventor, either solely or jointly with others, on said invention or improvements, and in any and all letters patent of the United States and other countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner for Patents to issue said letters patent to said Assignee.

The undersigned hereby authorize and request that the attorneys of record in said application insert in this assignment the execution date and/or filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the interest herein assigned and to have the right to make this assignment and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned except in favor of Assignee.

For said consideration the undersigned hereby agree, upon the request and at the expense of said Assignee, its successors and assigns, to execute any and all applications on said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any letters patent that may be granted upon any and all of said applications, and any and all applications and other documents for letters patent in other countries on said invention or improvements, that said Assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agree upon the request of said Assignee, its successors or assigns, in the event of any application or letters patent assigned herein becoming involved in Interference or Opposition, to cooperate to the best of the ability of the undersigned with said Assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said letters patent, both in the United States and in other countries, and vest all rights therein hereby conveyed in said Assignee, its successors and assigns, whereby said letters patent will be held and enjoyed by said Assignee, its successors and assigns, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

WITNESS my hand this

18<sup>th</sup> day of December, 2012.

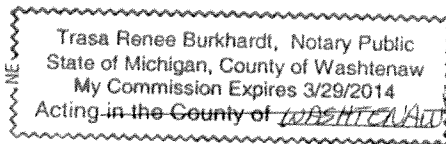
State of Michigan  
County of Washtenaw

Pallab B. Bhattacharya  
Pallab Bhattacharya

On this 18<sup>th</sup> day of December, 2012, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires:



Trasa Renee Burkhardt  
Notary Public

WITNESS my hand this

\_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

State of \_\_\_\_\_  
County of \_\_\_\_\_

\_\_\_\_\_  
Meng Zhang

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

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Notary Public

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The undersigned hereby authorize and request the Commissioner for Patents to issue said letters patent to said Assignee.

The undersigned hereby authorize and request that the attorneys of record in said application insert in this assignment the execution date and/or filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the interest herein assigned and to have the right to make this assignment and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned except in favor of Assignee.

For said consideration the undersigned hereby agree, upon the request and at the expense of said Assignee, its successors and assigns, to execute any and all applications on said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any letters patent that may be granted upon any and all of said applications, and any and all applications and other documents for letters patent in other countries on said invention or improvements, that said Assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agree upon the request of said Assignee, its successors or assigns, in the event of any application or letters patent assigned herein becoming involved in Interference or Opposition, to cooperate to the best of the ability of the undersigned with said Assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said letters patent, both in the United States and in other countries, and vest all rights therein hereby conveyed in said Assignee, its successors and assigns, whereby said letters patent will be held and enjoyed by said Assignee, its successors and assigns, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_ , \_\_\_\_\_ .

State of \_\_\_\_\_

County of \_\_\_\_\_

\_\_\_\_\_  
Pallab Bhattacharya

On this \_\_\_\_\_ day of \_\_\_\_\_ , \_\_\_\_\_ , before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

WITNESS my hand this 19 day of Dec , 2012 .

State of CA

County of Alameda

Meng Zhang  
Meng Zhang

On this 19 day of Dec , 12 , before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: \_\_\_\_\_

May 6 2015

Sadaf W. Ahmadi  
Notary Public

