

# 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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Chu-Lin CHANG</td> <td>08/26/2009</td> </tr> <tr> <td>Gerd Keiser</td> <td>08/05/2009</td> </tr> <tr> <td>Shien-Kuei LIAW</td> <td>08/05/2009</td> </tr> <tr> <td>Yu-Sheng HUANG</td> <td>09/19/2009</td> </tr> </tbody> </table>		Name	Execution Date	Chu-Lin CHANG	08/26/2009	Gerd Keiser	08/05/2009	Shien-Kuei LIAW	08/05/2009	Yu-Sheng HUANG	09/19/2009
Name	Execution Date										
Chu-Lin CHANG	08/26/2009										
Gerd Keiser	08/05/2009										
Shien-Kuei LIAW	08/05/2009										
Yu-Sheng HUANG	09/19/2009										
<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>National Taiwan University of Science and Technology</td> </tr> <tr> <td>Street Address:</td> <td>No. 43, Sec.4, Keelung Rd.</td> </tr> <tr> <td>City:</td> <td>Taipei City</td> </tr> <tr> <td>State/Country:</td> <td>TAIWAN</td> </tr> <tr> <td>Postal Code:</td> <td>106</td> </tr> </table>		Name:	National Taiwan University of Science and Technology	Street Address:	No. 43, Sec.4, Keelung Rd.	City:	Taipei City	State/Country:	TAIWAN	Postal Code:	106
Name:	National Taiwan University of Science and Technology										
Street Address:	No. 43, Sec.4, Keelung Rd.										
City:	Taipei City										
State/Country:	TAIWAN										
Postal Code:	106										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12621074</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12621074						
Property Type	Number										
Application Number:	12621074										
<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (703)621-7155</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 7036217140</p> <p>Email: fec@mg-ip.com</p> <p>Correspondent Name: Muncy, Geissler, Olds, &amp; Lowe PLLC</p> <p>Address Line 1: PO Box 1364</p> <p>Address Line 4: Fairfax, VIRGINIA 22038</p>											
ATTORNEY DOCKET NUMBER:	5275/0230PUS1										
NAME OF SUBMITTER:	Joe McKinney Muncy										
<p>Total Attachments: 3</p> <p>source=2009-11-18-Assignment#page1.tif</p>											

OP \$40.00 12621074

**501019340**

**PATENT**  
**REEL: 023537 FRAME: 0912**

source=2009-11-18-Assignment#page2.tif  
source=2009-11-18-Assignment#page3.tif

MUNCY, GEISSLER, OLDS & LOWE, PLLC

UNITED STATES PATENT RIGHTS, OR  
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

Application No. 12621074

Filed 11/18/2009

Insert Name(s)  
of Inventor(s)

\*\*\* (Given Name FAMILY NAME (ALL CAPS)) \*\*\*

WHEREAS, Chu-Lin CHANG

Gerd Keiser

Shien-Kuei LIAW

Yu-Sheng HUANG

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in

Insert Title  
of Invention

Bidirectional Multi-wavelength Optical Signal Routing and Amplification Module

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).

Insert Date  
of Signing of  
Application

08/29/2009, 08/05/2009, 08/05/2009, and 09/19/2009, respectively

on \_\_\_\_\_; and

Insert Name  
of Assignee

WHEREAS, National Taiwan University of Science and Technology

Insert Address  
of Assignee

of No.43, Sec.4, Keelung Rd., Taipei City 106, Taiwan, R.O.C.

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

CHECK BOX  
IF APPROPRIATE

☐ in any foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Muncy, Geissler, Olds & Lowe, PLLC the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 2009' 8' 26

Name of Inventor Chu-Lin CHANG/  
(signature)

Date 5 Aug. 2009

Name of Inventor Gerd Keiser/  
(signature)

Date 5 Aug, 2009

Name of Inventor Shien-Kuei LIAW/  
(signature)

Date \_\_\_\_\_

Name of Inventor Yu-Sheng HUANG/  
(signature)

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Muncy, Geissler, Olds & Lowe, PLLC the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____,	Name of Inventor <u>Chu-Lin CHANG/</u> (signature)
Date _____,	Name of Inventor <u>Gerd Keiser/</u> (signature)
Date _____,	Name of Inventor <u>Shien-Kuei LIAW/</u> (signature)
Date <u>2009/9/19</u> ,	Name of Inventor <u>Yu-Sheng HUANG/</u> <i>Yu-Sheng Huang</i> (signature)