

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3405494

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	TITAN PHOTONICS, INC.	05/06/2015
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	TIOPTICS, INC.	
<b>Street Address:</b>	15373 INNOVATION DRIVE #130	
<b>City:</b>	SAN DIEGO	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	92128	
<b>PROPERTY NUMBERS Total: 10</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	13765585	
<b>Application Number:</b>	13764561	
<b>Application Number:</b>	13767808	
<b>Application Number:</b>	13906212	
<b>Application Number:</b>	14069228	
<b>Application Number:</b>	14069248	
<b>Application Number:</b>	14157263	
<b>Patent Number:</b>	8483566	
<b>Patent Number:</b>	8909057	
<b>Patent Number:</b>	8909046	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(619)688-1322	
<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>	619-688-1300	
<b>Email:</b>	email@nydegger.com	
<b>Correspondent Name:</b>	NYDEGGER & ASSOCIATES	
<b>Address Line 1:</b>	5120 SHOREHAM PLACE, SUITE 275	
<b>Address Line 4:</b>	SAN DIEGO, CALIFORNIA 92122	
<b>ATTORNEY DOCKET NUMBER:</b>	11658.100	

<b>NAME OF SUBMITTER:</b>	NEIL K. NYDEGGER
<b>SIGNATURE:</b>	/Neil K. Nydegger/
<b>DATE SIGNED:</b>	06/19/2015
<b>Total Attachments: 5</b> source=Assign_Titan_to_Tioptics_11658-100#page1.tif source=Assign_Titan_to_Tioptics_11658-100#page2.tif source=Assign_Titan_to_Tioptics_11658-100#page3.tif source=Assign_Titan_to_Tioptics_11658-100#page4.tif source=Assign_Titan_to_Tioptics_11658-100#page5.tif	

PATENT

ASSIGNMENT

WHEREAS, TITAN PHOTONICS, INC., a California corporation ("Assignor"), having offices at 48383 Fremont Blvd., Suite 116, Fremont, California 94538, has certain rights and title to those patent applications set forth on the attached Schedule A (all such technology referred to herein as the "Technology/Intellectual Property"); and

WHEREAS, TIOPTICS, INC., a California corporation ("Assignee"), having offices at 956 Garrity Way, Santa Clara, California 95054, is desirous of acquiring an interest in the Technology/Intellectual Property:

For good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign to Assignee all of Assignor's right, title and interest in and to the Technology/Intellectual Property and to all foreign counterparts (including patent, utility model and industrial designs), and all future improvements thereon, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world; and further including: (i) all income, royalties, and damages now and hereafter due and/or payable to Assignor, including without limitation, damages and payments for past or future infringements and misappropriations thereof; (ii) all rights to sue for past, present and future infringements or misappropriations thereof; and (iii) all rights corresponding to any of the above throughout the world. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that Assignor will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the Technology/Intellectual Property and any improvements, (b) execute, verify, acknowledge and deliver or cause to be delivered all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the Technology/Intellectual Property and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has caused this Assignment to be duly executed by its duly authorized officer on the date set forth below.

TITAN PHOTONICS, INC.

By: 

Charlie Chen  
Board Director

Dated: 2015-05-06

By: 

Eric Liu  
Board Director

Dated: 5/6/2015

By: 

Evan Yifan Chen  
Board Director

Dated: 5/6/2015

NKN:ddb  
Docket: 11576.100

Notary Acknowledgment Attached

### ACKNOWLEDGMENT

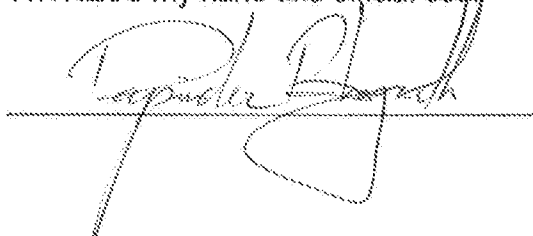
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

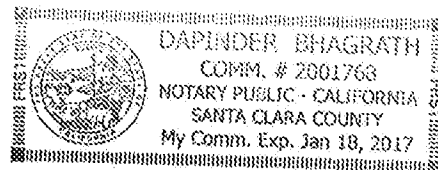
STATE OF CALIFORNIA    )  
  ) ss.  
COUNTY OF Alameda    )

On May 6<sup>th</sup>, 2015, before me, DAPINDER BHAGRATH, Notary Public, personally appeared CHARLIE CHEN, ERIC LI & YIFAN CHEN, who proved to me on the basis of 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,

 (Seal)



## Schedule A

Assignment from

TITAN PHOTONICS, INC.  
TO  
TIOPTICS, INC.

### Issued Patents:

U.S. Patent Appln. Serial No.:	Date Filed:	Issued Patent No.:	Nydegger & Assoc. File No.:
13/045,250	3/10/2011	8,483,566	11576.3
13/585,653	8/14/2012	8,909,057	11576.7
13/645,292	10/4/2012	8,909,046	11576.7.1

### Pending/Filed Patent Applications in Progress:

Patent Appln Serial No.:	Date Filed:	Country:	Nydegger & Assoc. File No.:
11852330.7	7/23/2013	Europe	11576.2b
201180063526.9	6/28/2013	China	11576.2c
2013-547484	6/27/2013	Japan	11576.2d
13/765,585	2/12/2013	United States	11576.2.1
102124790	7/10/2013	Taiwan	11576.2.1a
2013-557824	9/9/2013	Japan	11576.3c
201280012677.6	9/10/2013	China	11576.3d
13180302.5	8/13/2013	Europe	11576.7a
2013-168185	8/13/2013	Japan	11576.7b
201310353771.4	8/14/2013	China	11576.7c
13187229.3	10/3/2013	Europe	11576.7.1a
2013-208391	10/3/2013	Japan	11576.7.1b
201310596321.8	10/8/2013	China	11576.7.1c
13/764,561	2/11/2013	United States	11576.8
13/767,808	2/14/2013	United States	11576.9
2014-025334	2/13/2014	Japan	11576.9b
201410064834.9	2/26/2014	China	11576.9c
13/906,212	5/30/2013	United States	11576.12
14/069,228	10/31/2013	United States	11576.13
14/069,248	10/31/2013	United States	11576.14
14/157,263	1/16/2014	United States	11576.16

**Schedule A (continued)**

Assignment from

TITAN PHOTONICS, INC.  
TO  
TIOPTICS, INC.

Patent Applications in Progress:

The following file is maintained in the law firm of Nydegger & Associates,  
5120 Shoreham Place, Suite 275, San Diego, CA 92122.

Title of Invention:	Inventors:	Country:	Nydegger File No.:
System and Method for Telecommunication Signal Transmissions Over a Relatively Short Fiber Optic	Sun, Huntley	United States	11576.15