

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4256806

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
NLIGHT, INC.		12/02/2016
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	PACIFIC WESTERN BANK	
<b>Street Address:</b>	406 BLACKWELL STREET	
<b>Internal Address:</b>	SUITE 240	
<b>City:</b>	DURHAM	
<b>State/Country:</b>	NORTH CAROLINA	
<b>Postal Code:</b>	27701	
<b>PROPERTY NUMBERS Total: 80</b>		
<b>Property Type</b>	<b>Number</b>	
Patent Number:	9397466	
Patent Number:	9373936	
Patent Number:	9270085	
Patent Number:	9214786	
Patent Number:	6952510	
Patent Number:	6519157	
Application Number:	15074838	
Application Number:	15040357	
Application Number:	14986545	
Application Number:	15004680	
Application Number:	15079664	
Application Number:	14971753	
Application Number:	14921203	
Application Number:	14938199	
Application Number:	14884642	
Application Number:	14879515	
Application Number:	14855710	
Application Number:	14768595	
Application Number:	14768613	

PATENT

Property Type	Number
Application Number:	14657791
Application Number:	14641093
Application Number:	14632813
Application Number:	14614194
Application Number:	14030799
Application Number:	14293941
Application Number:	14296722
Application Number:	14984602
Application Number:	12474210
Application Number:	13250686
Application Number:	13795195
Application Number:	14450162
Application Number:	14508684
Application Number:	15143314
Application Number:	14702298
Application Number:	15154663
Application Number:	62171070
Application Number:	15197443
Application Number:	14790737
Application Number:	14815403
Application Number:	14816211
Application Number:	14873049
Application Number:	62253873
Application Number:	14939836
Application Number:	62256571
Application Number:	62257164
Application Number:	62257672
Application Number:	62257669
Application Number:	62258161
Application Number:	62258636
Application Number:	62258774
Application Number:	62263526
Application Number:	62267678
Application Number:	62269794
Application Number:	62271932
Application Number:	62274060
Application Number:	62274131
Application Number:	62280668

Property Type	Number
Application Number:	62292108
Application Number:	62295984
Application Number:	62310511
Application Number:	15074664
Application Number:	62318136
Application Number:	62327971
Application Number:	62335947
Application Number:	62336710
Application Number:	62336748
Application Number:	62336871
Application Number:	62344961
Application Number:	62344993
Application Number:	62344988
Application Number:	15115392
Application Number:	15238192
Application Number:	62380312
Application Number:	62380235
Application Number:	62380264
Application Number:	62380260
Application Number:	62380258
Application Number:	62382034
Application Number:	15276589
Application Number:	62401775

#### CORRESPONDENCE DATA

**Fax Number:** (919)354-1278

***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.***

**Phone:** 919-314-3086

**Email:** diligencereview@square1bank.com

**Correspondent Name:** PACIFIC WESTERN BANK

**Address Line 1:** 406 BLACKWELL STREET

**Address Line 2:** SUITE 240

**Address Line 4:** DURHAM, NORTH CAROLINA 27701

<b>NAME OF SUBMITTER:</b>	NICHOLAS NANCE
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<b>SIGNATURE:</b>	/NICHOLASNANCE/CCD
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<b>DATE SIGNED:</b>	02/02/2017
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**Total Attachments: 9**

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**SUPPLEMENT  
TO  
INTELLECTUAL PROPERTY SECURITY AGREEMENT**

OK December 2  
This Supplement to Intellectual Property Security Agreement is entered into as of November 2, 2016 by and between Pacific Western Bank ("Bank") and nLIGHT, Inc., formerly known as nLight Photonics Corporation ("Grantor").

**RECITALS**

A. Bank (as successor in interest by merger to Square 1 Bank), and Grantor previously entered into an Intellectual Property Security Agreement (the "IP Security Agreement"), dated as of the "Effective Date" (which was March 13, 2014). (Capitalized terms that are used but not defined herein shall have the meanings provided for in the IP Security Agreement.)

B. Bank and Grantor now desire to amend and supplement the IP Security Agreement as set forth herein.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, the parties hereby represent, warrant, covenant and agree as follows:

**AGREEMENT**

The IP Security Agreement is hereby amended and supplemented by adding the Intellectual Property listed on Exhibit A hereto to Exhibit A of the IP Security Agreement, the Intellectual Property listed on Exhibit B hereto to Exhibit B of the IP Security Agreement, the Intellectual Property listed on Exhibit C hereto to Exhibit C of the IP Security Agreement, and the Intellectual Property listed on Exhibit D hereto to Exhibit D of the IP Security Agreement. References to Exhibits contained in the IP Security Agreement shall be deemed to refer to such Exhibits as supplemented by the Exhibits attached hereto. Without limitation on the generality of the foregoing, (1) Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under the intellectual property described on the Exhibits hereto (including without limitation the patents, trademarks, copyrights and Mask Works, if any, described thereon, and including without limitation (a) any and all claims for damages by way of past, present and future infringements of any of the intellectual property rights, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights, (b) all licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works and all license fees and royalties arising from such use to the extent permitted by such license or rights, (c) all amendments, extensions, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works, and (d) all proceeds and products of the intellectual property, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the intellectual property), and (2) Grantor represents and warrants to Bank that, other than as set forth on the Exhibits to the IP Security Agreement (as amended and supplemented by the Exhibits hereto), it has no trademarks or

patents registered with the United States Patent and Trademark Office, or copyrights or mask works registered with the United States Copyright Office, or any pending applications therefor.

This Agreement is part of the IP Security Agreement and the provisions thereof are incorporated herein. The parties are authorized to attach to the IP Security Agreement a copy of the Exhibits hereto. This Agreement may be executed in any number of, and by different parties hereto on, separate counterparts, all of which, when so executed, shall be deemed an original, for all such counterparts shall constitute one and the same agreement.

IN WITNESS WHEREOF, the parties have caused this Supplement to Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

NLIGHT, INC.

By: Kerny Hill  
Name: Kerny Hill  
Title: Secretary & CEO

BANK:

PACIFIC WESTERN BANK

By: Aaron Li  
Name: Aaron Li  
Title: Client Manager

**EXHIBIT A**

**COPYRIGHTS**

<b>DESCRIPTION</b>	<b>REGISTRATION/ APPLICATION NUMBER</b>	<b>REGISTRATION/ APPLICATION DATE</b>
None.		

## EXHIBIT B

### PATENTS

DESCRIPTION	REGISTRATION/ APPLICATION NUMBER	REGISTRATION/ APPLICATION DATE
High power chirally coupled core optical amplification systems and methods	9,397,466	07/19/16
	14/329,484	07/11/14
Resonant active grating mirror for surface emitting lasers	9,373,936	06/21/16
	14/611,124	01/30/15
Multi-wavelength laser device	9,270,085	02/23/16
	14/547,116	11/18/14
Diode laser packages with flared laser oscillator waveguides	9,214,786	12/15/15
	14/249,276	04/09/14
Optically corrected intracavity fiber coupled multigain element laser	6,952,510	10/04/05
	10/153,363	05/22/02
System and method for mounting a stack-up structure	6,519,157	02/11/03
	10/004,253	10/23/01
Fiber Source With Cascaded Gain Stages And/Or Multimode Delivery Fiber With Low Splice Loss	20160285227	09/29/16
	15/074838	03/18/16
Laser Marking Method And System And Laser Marked Object	20160263701	09/15/16
	15/040357	02/10/16
Wavelength Locking Multimode Diode Lasers With Fiber Bragg Grating in Large Mode Area Core	20160226220	08/04/16
	14/986545	12/31/15
High-Power, Single-Mode Fiber Sources	20160218476	07/28/16
	15/004680	01/22/16
Active Monitoring Of Multi-Laser Systems	20160209267	07/21/16
	15/079664	03/24/16
Optical Loss Management In High Power Diode Laser Packages	20160181762	06/23/16
	14/971753	12/16/15



DESCRIPTION	REGISTRATION/ APPLICATION NUMBER	REGISTRATION/ APPLICATION DATE
Fiber Termination Assembly	20160178849	06/23/16
	14/921203	10/23/15
Diode Laser Packages With Flared Laser Oscillator Waveguides	20160172823	06/16/16
	14/938199	11/11/15
Slanted Fbg For Srs Suppression	20160111851	04/21/16
	14/884642	10/15/15
Multiple Flared Laser Oscillator Waveguide	20160104997	04/14/16
	14/879515	10/09/15
Flared Laser Oscillator Waveguide	20160006216	01/07/16
	14/855710	09/16/15
Patterning Conductive Films Using Variable Focal Plane To Control Feature Size	20160001402	01/07/16
	14/768595	02/21/14
Laser Patterning Of Multi-Layer Structures	20150376756	12/31/15
	14/768613	02/21/14
Algorithms For Rapid Gating Of Seed Suspendable Pulsed Fiber Laser Amplifiers	20150263481	09/17/15
	14/657791	03/13/15
High Brightness Multijunction Diode Stacking	20150255960	09/10/15
	14/641093	03/06/15
Square Pulse Laser Lift Off	20150239063	08/27/15
	14/632813	02/26/15
Single-Emitter Line Beam System	20150219905	08/06/15
	14/614194	02/04/15
Non-ablative Laser Patterning	20140230967	08/21/14
	14/030799	09/18/13
Scalable High Power Fiber Laser	20150349481	12/03/15
	14/293,941	06/02/14
Laser Patterning Skew Correction	20150352664	12/10/15
	14/296,722	06/05/14

DESCRIPTION	REGISTRATION/ APPLICATION NUMBER	REGISTRATION/ APPLICATION DATE
High Brightness Multijunction Diode Stacking	20160181764	06/23/16
	14/984,602	12/30/15
Single mode fiber combiners	12/474,210	05/28/09
Intensity distribution management system and method in pixel imaging	13/250,686	09/30/11
Integrating Volume For Laser Light Homogenization	13/795,195	03/12/13
Scanner Drift Compensation For Laser Material Processing	14/450,162	08/01/14
Fiber Laser Line Beam System And Method	14/508,684	10/07/14
Portable Industrial Fiber Optic Inspection Scope	15/143,314	04/29/15
Multimode Fiber Combiners	14/702,298	05/01/15
Passively Aligned Crossed Cylinder Objective Assembly	15/154,663	05/15/15
Angled Dbr-Grating Laser/Amplifier With One Or More Mode-Hopping Regions	62/171,070	06/04/15
Adaptive Boost Control For Gating Picosecond Pulsed Fiber Lasers	15/197,443	06/30/15
High Efficiency, Low Cost, Laser Power Supply	14/790,737	07/02/15
Distributed Laser Power Architecture For Laser Diode Arrays	14/815,403	07/31/15
Back-Reflection Protection And Monitoring In Fiber And Fiber-Delivered Lasers	14/816,211	08/03/15
Cryogenic Cooling Of Diode Laser With Coolant Recovery	14/873,049	10/01/15
Rust Free Stainless Steel Engraving	62/253,873	11/11/15
Multi-Beam Laser Processing With Dispersion Compensation	14/939,836	11/12/15
Multiple Laser Module Programming Over Internal Communications Bus Of Fiber Laser	62/256,571	11/17/15
Fiber Laser Packaging	62/257,164	11/18/15
Auto Calibration Of Power Supplies To Minimize Heat Dissipation In	62/257,672	11/19/15
Laser Fault Tolerance And Self-Calibration System	62/257,669	11/19/15

DESCRIPTION	REGISTRATION/ APPLICATION NUMBER	REGISTRATION/ APPLICATION DATE
Programmable Pulse Profile Waveform Simulator	62/258,161	11/20/15
Laser System	62/258,636	11/23/15
Predictive Modification Of Laser Diode Drive Current Waveform In Order To Optimize Optical Output Waveform In High Power Laser Systems	62/258,774	11/23/15
Optical Mode Filter Employing Radially Asymmetric Fiber	62/263,526	12/4/15
Lens For IR Laser Collimation	62/267,678	12/15/15
Reverse Interleaving For Laser Line Generators	62/269,794	12/18/15
Fully Controllable Burst Shaping For Individual Pulses From Picosecond Fiber Lasers	62/271,932	12/28/15
Fiber Pump Combiner	62/274,060	12/31/15
Pump-Signal Combiners For Glass Clad Fibers	62/274,131	12/31/15
Method Of Processing Calibration Data In 3d Laser Scanner Systems	62/280,668	01/19/16
Fine-Scale Temporal Control For Laser Material Processing	62/292,108	02/05/16
Passively Aligned Single Element Telescope For Improved Package Brightness	62/295,984	02/16/16
Spectrally Multiplexing Diode Pump Modules To Improve Brightness	62/310,511	03/18/16
Active Monitoring of Multi-laser System	15/074,664	03/24/16
High Brightness Coherent Multi-Junction Diode Lasers	62/318,136	04/04/16
Low Size And Weight, High Power Fiber Laser Pump Diode	62/327,971	04/26/16
Double Helix Coolant Path For High Power Fiber Connector	62/335,947	05/13/16
Industrial Fiber Connector For High-Power Delivery	62/336,710	05/15/16
Factory Serviceable Fiber Laser Window	62/336,748	05/16/16
Light Trap For High Power Fiber Laser Connector	62/336,871	05/16/16
Method And Apparatus For Controlling Beam Profile From A Multimode Fiber	62/344,961	06/02/16
Multifunctional Two-Wire Circuit For Monitoring Fiber Cable Health	62/344,993	06/03/16

DESCRIPTION	REGISTRATION/ APPLICATION NUMBER	REGISTRATION/ APPLICATION DATE
Method Of Processing Calibration Data In Laser Scanner Systems	62/344,988	06/03/16
Spun Round Core Fiber	15/115,392	07/29/16
Heat Spreader With Optimized Coefficient Of Thermal Expansion And/Or Heat Transfer	15/238,192	08/16/16
Splice With Cladding Mode Light Stripper	62/380,312	08/26/16
Fiber Combiner With Input Port Dump	62/380,235	08/26/16
Laser Module Service Shelf	62/380,264	08/26/16
Laser Optical Fiber Tray	62/380,260	08/26/16
Laser Power Distribution Module	62/380,258	08/26/16
Laser Cooling System	62/382,034	08/31/16
Beam Parameter Product (BPP) Control By Varying Fiber-To-Fiber Angle	15/276,589	09/26/16
Method Of Processing Calibration Data In 3d Laser Scanner Systems	62/401,775	09/29/16

## EXHIBIT C

### TRADEMARKS

DESCRIPTION	REGISTRATION/ SERIAL NUMBER	REGISTRATION/ APPLICATION DATE
None.		

**EXHIBIT D**

**MASK WORKS**

<b>DESCRIPTION</b>	<b>REGISTRATION/ APPLICATION NUMBER</b>	<b>REGISTRATION/ APPLICATION DATE</b>
None		