502913938 07/30/2014

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2960536

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
ZAKARYAE FATHI	12/19/2011
JAMES CLAYTON	12/19/2011
HAROLD WALDER	12/19/2011
FREDERIC A. BOURKE JR.	12/16/2011
IAN STANTON	09/20/2011
JENNIFER AYRES	09/20/2011
JOSHUA T. STECHER	09/20/2011
MICHAEL THERIEN	09/23/2011
ERIC TOONE	11/27/2011
DAVE GOODEN	11/27/2011
MARK DEWHIRST	07/30/2014
JOSEPH A. HERBERT	09/21/2011
DIANE FELS	09/21/2011
KATHERINE S. HANSEN	09/21/2011

### **RECEIVING PARTY DATA**

Name:	IMMUNOLIGHT, LLC	
Street Address: 1901 ST. ANTOINE STREET		
Internal Address: 6TH FLOOR AT FORD FIELD		
City: DETROIT		
State/Country:	tate/Country: MICHIGAN	
Postal Code: 48226		
Name: DUKE UNIVERSITY		
Name:	DUKE UNIVERSITY	
Name: Street Address:	DUKE UNIVERSITY 2020 WEST MAIN STREET	
Street Address:	2020 WEST MAIN STREET	
Street Address: Internal Address:	2020 WEST MAIN STREET SUITE 10	
Street Address: Internal Address: City:	2020 WEST MAIN STREET SUITE 10 DURHAM	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	13102277	

**PATENT** 

502913938 REEL: 033422 FRAME: 0811

#### **CORRESPONDENCE DATA**

**Fax Number:** (703)413-2220

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: (703) 413-3000
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Correspondent Name: OBLON, SPIVAK, ET AL.
Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	380568US23X
NAME OF SUBMITTER:	SHAWN F. LAURINO
SIGNATURE:	/Shawn F. Laurino/
DATE SIGNED:	07/30/2014

### **Total Attachments: 21**

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> PATENT REEL: 033422 FRAME: 0812

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DIF IN	VI NI CHE

WHEREAS, I (WE	E) (1) Zakaryae FATHI, James	CLAYTON, H	arold WALDER and Fred	eric A. BOURKE, Jr. all of:
	c/o Immunolight, LLC, 190	01 St. Antoine S	reet, 6th Floor at Ford Fi	eld, Detroit, MI 48226
	(2) Ian STANTON of: 551	i Butterfly Lane	, #303, Durham, NC 2770	07;
	Jennifer AYRES of: 21	21 Ramsgate Str	eet, Raleigh, NC 27603;	
	Joshua T. STECHER o	f: 5534 Sunlight	Drive, Apt. 303, Durham	, NC 27707;
	Michael THERIEN of:	6 Pine Top Place	, Durham, NC 27705;	
	Eric TOONE of: 2601	Evans Street, Du	rham, NC 27705;	
	Dave GOODEN of: 310	08 Ridgestone Pl	wy., Durham, NC 27712	<b>,</b>
	Mark DEWHIRST of: 3	3610 Barn View	Place, Durham, NC 2770	5;
	Joseph A. HERBERT o	f: 2512 Carver S	treet, Durham, NC 27705	7
	Diane FELS of: 300 Da	rby Creek Lane,	Apt. 323, Morrisville, NO	C 27560; and
	Katherine S. HANSEN	of: 127 Trapper	Run Drive, Cary, NC 27	513
				, respectively
				00171011 4117 1477107 01
USE	tain new and useful improven	nents in: <u>ADHE</u>	SIVE BONDING COMP	OSITION AND METHOD OF
(Application No.	13/102,277	, filed	May 6, 2011	), and
WHEREAS,	(1) Immunolight, LLC			
,	(2) Duke University			

INSERT NAME AND ARREST OF COMPANY OR OTHER ASSIGNEE

INSERT TITLE OF

(hereinafter referred to as "ASSIGNEES") having places of business at: (1) 1901 St. Antoine Street, 6th Floor at Ford Field, Detroit, MI 48226; (2) 2020 West Main Street, Suite 10, Durham, NC 27705, respectively are desirous of jointly acquiring interests in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

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Date: 12 - 19 - 11	A Hattin
	(Sighante of (inventor) Zakaryan FATHI
Date:	
	(Signature of Inventor) James CLAYTON
Date:	
	(Signature of Inventor) Harold WALDER
Date:	
$\epsilon_{\rm s}$	(Signature of Inventor) Frederic A. BOURKE, J
Date:	
	(Signature of Inventor) Ian STANTON
Date:	(A)
_	(Signature of Inventor) Jennifer AYRES
Date:	(Signature of Inventor) Joshua T. STECHER
Ďate:	
Date:	(Signature of Inventor) Michael THERIEN
Date:	
	(Signature of Inventor) Eric TOONE
Date:	
ъ.	(Signature of Inventor) Dave GOODEN
Date:	(Signature of Inventor) Mark DEWHIRST
Date:	in the second se
	(Signature of Inventor) Joseph A. HERBERT
Date:	Nu.
	(Signature of Inventor) Diane FELS
Date:	(Signature of Inventor) Katherine S. HANSEN
	- Ramerine S, AMNSEN

INSERT NAMES AND RESIDENCE ADDRESS OF THE INVENTORS:

WHEREAS, I (W	E)(1) Zakaryae FATHI, James CLAYTON, Harold WALDER and Frederic A. BOURKE, Jr. all of:
	c/o Immunolight, LLC, 1901 St. Antoine Street, 6th Floor at Ford Field, Detroit, MI 48226
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	Dave GOODEN of: 3108 Ridgestone Pkwy., Durham, NC 27712;
	Mark DEWHIRST of: 3610 Barn View Place, Durham, NC 27705;
	Joseph A. HERBERT of: 2512 Carver Street, Durham, NC 27705;
	Diane FELS of: 300 Darby Creek Lane, Apt. 323, Morrisville, NC 27560; and
	Katherine S. HANSEN of: 127 Trappers Run Drive, Cary, NC 27513
	, respectively,
have invented cer	tain new and useful improvements in: <u>ADHESIVE BONDING COMPOSITION AND METHOD OF</u>
(Application No.	
WHEREAS,	(1) Immunolight, LLC
• ,	(2) Duke University
	(4)

INSERT TITLE OF INVENTION:

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Date:				
		(Signature of Inventor)	Zakaryae FATHI	
Date:	December 19, 2011	ame	W Olawson	
	•	(Signature of Inventor)	James CLAYTON	
Date:		<i>U</i>	V	
		(Signature of Inventor)	Harold WALDER	
Date:	WALL			
		(Signature of Inventor)	Frederic A. BOURKE,	3-1
Date:	:		**************************************	to the
		(Signature of Inventor)	Ian STAN'(ON	25.6
Date:			÷	
		(Signature of Inventor)	Jenninei A i Kim	Private Communication Communic
Date:				- f
		(Signature of Inventor)	Joshua T. STECHER	
Date:				
		(Signature of Inventor)	Michael THERIEN	
Date:	demand value			
		(Signature of Inventor)	Eric TOONE	•
Date:				
		(Signature of Inventor)	Dave GOODEN	
Date:		(Signature of Inventor)	Mada DOWNINGT	
_		(Defining of Privation)	Mark DEV/HIRST	#
Date:		(Signature of Inventor)	Joseph A. HERBERT	<del></del>
Date				•
Date:		(Signature of Inventor)	Diane FELS	
Date:				
- H.O.	· · · · · · · · · · · · · · · · · · ·	(Signature of Inventor)	Katherine S. HANSEN	

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c/o Immunolight, LLC, 1901 St. Antoine Street, 6th Floor at Ford Field, Detroit, MI 482  (2) Ian STANTON of: 5511 Butterfly Lane, #303, Durham, NC 27707;  Jennifer AYRES of: 2121 Ramsgate Street, Raleigh, NC 27603;  Joshua T. STECHER of: 5534 Sunlight Drive, Apt. 303, Durham, NC 27707;	26
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Katherine S. HANSEN of: 127 Trappers Run Drive, Cary, NC 27513	
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have invented certain new and useful improvements in: <u>ADHESIVE BONDING COMPOSITION AND ME</u> USE	THOD OF
(Application No. 13/102,277 , filed May 6, 2011	), and
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Date:			
		(Signature of Inventor)	Zakaryae FATHI
Date:			
	c ^	(Signature of Inventor)	James CLAYTION
Date:	19 Dec 2011	(Signature of Inventor)	ield Wally
		(Signature of Inventor)	Harold WALDER
Date:		(Signature of Inventor)	Frederic A. BOURKE, Jr.
Date:			
		(Signature of Inventor)	Ian STANTON
Date:			
		(Signature of Inventor)	Jennifer AYRES
Date:		(Signature of Inventor)	Joshua T. STECHER
Date:			
		(Signature of Inventor)	Michael THERIEN
Date:		(Signature of Inventor)	F. moone
ъ.		(Signature of Inventor)	Eric TOONE
Date:		(Signature of Inventor)	Dave GOODEN
Date:			
		(Signature of Inventor)	Mark DEWHIRST
Date:		(Signature of Inventor)	L. A. WEDDERT
ъ.		(nightage of proceed)	Joseph A. HERBERT
Date:		(Signature of Inventor)	Diane FELS
Date:			
		(Signature of Inventor)	Katherina S. HANSEN

INSERT BAMES AND RESIDENCE ADDRESS OF THE INVENTORS

WHEREAS, I (WI	(1) Zakaryae FATHI, Jame	s CLAYTON, I	larold WALDER and F	rederic A. BOURKE, Jr. all of:
	c/o Immunolight, LLC, 19	01 St. Antoine	Street, 6th Floor at Ford	Field, Detroit, MI 48226
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	Jennifer AYRES of: 21	21 Ramsgate S	reet, Raleigh, NC 2760	3;
	Joshua T. STECHER of	of: 5534 Sunligl	nt Drive, Apt. 303, Duri	nam, NC 27707;
	Michael THERIEN of:	6 Pine Top Plac	ce, Durham, NC 27705	
	Eric TOONE of: 2601	Evans Street, D	urham, NC 27705;	
	Dave GOODEN of: 31	08 Ridgestone l	kwy., Durham, NC 27	712;
	Mark DEWHIRST of:	3610 Barn Viev	v Place, Durham, NC 2	7705;
	Joseph A. HERBERT o	f: 2512 Carver	Street, Durham, NC 27	705;
	Diane FELS of: 300 Da	rby Creek Lan	e, Apt. 323, Morrisville	NC 27560; and
	Katherine S. HANSEN	of: 127 Trappe	rs Run Drive, Cary, NO	27513
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The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:				
_		(Signature of Inventor)	Zakaryae FATHI	
Date: _		(Signature of Inventor)	James CLAYTON	
Date:		(D) (1)		
Date:	Dec. 16.2011	(Signature of Inventor)	Harold WALDER	)_
		(Signature of Inventor)	Frederic A. BOURKE, Jr.	
Date:		(Signature of Inventor)	Ian STANTON	
Date:		(Signature of Inventor)	Jennifer AYRES	
Date:		(Signature of Inventor)	Joshua T. STECHER	
Date:		(Signature of Inventor)	Mid-al THERIEN	
Date:		(Signature of Inventor)	Michael THERIEN	_
		(Signature of Inventor)	Eric TOONE	
Date:		(Signature of Inventor)	Dave GOODEN .	
Date:	,	(Signature of Inventor)	Mark DEWHIRST	
Date:		(Signature of Inventor)	Joseph A. HERBERT	
Date:			жения положи	
		(Signature of Inventor)	Diane FELS	
Date:		(Signature of Inventor)	Katherine S. HANSEN	

07/09

\_, respectively.

### **Assignment of Application**

INSERT NAMES	WHEREAS, I (WE)(1) Zakaryae FATHI, James CLAYTON, Harold WALDER and Frederic A. BOURKE, Jr. all of:
AND RESIDENCE ADDRESS OF THE INVENTORS	c/o Immunolight, LLC, 1901 St. Antoine Street, 6th Floor at Ford Field, Detroit, MI 48226
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INSERT TITLE OF INVENTION	have invented certain new and useful improvements in: <u>ADHESIVE BONDING COMPOSITION AND METHOD C</u> USE

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(1) Immunolight, LLC

(2) Duke University

(Application No. 13/102,277

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Date:			
		(Signature of Inventor)	Zakaryae FATHI
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Date:			3116.
		(Signature of Inventor)	James CLAYTON
Date:		(Signature of Inventor)	Harold WALDER
_			Halolu WALDER
Date:		(Signature of Inventor)	Frederic A. BOURKE, Jr.
Date:	Sept. 20th, 2011	h	Metal
	,	(Signature of Inventor)	Ian STANTON
Date:	= ept. 20, 2011	Jui	L Cum
		(Signature of inventor)	Jennifer A RES
Date:	Sept. 2044, 2011	allua	Salle
		(Signature of Inventor)	Joshua T. STECHER
Date:	9/23/11	Much	af here
		(Signature of Inventor)	Michael THERIEN
Date:	•		<u> </u>
		(Signature of Inventor)	Eric TOONE
Date:			<u> </u>
		(Signature of Inventor)	Dave GOODEN
Date:	4		
		(Signature of Inventor)	Mark DEWHIRST
Date:	-		
~		(Signature of Inventor)	Joseph A. HERBERT
Date:		(Signature of Inventor)	Diane FELS
			Miller DEO
Date:		(Signature of Inventor)	Katherine S. HANSEN

INSERT NAMES AND RESIDENCE ADDRESS OF THE INSERT OF

INSERT THELF OF INVENTION

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	(Signature of Inventor)	Zakaryae FATHI	
Date:			
	(Signature of Inventor)	James CLAYTON	_
Date:			
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Date:			
	(Signature of Inventor)	Frederic A. BOURKE, Jr.	
Date:			
	(Signature of Inventor)	lan STANTON	
Date:			
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Date:			
	(Signature of Inventor)	Joshua T. STECHER	
Date:	·		
	(Signature of Inventor)	Michael THERIEN	
Date: 11/27/11	المكا	are	
	(Signature of Inventor)	Eric TOONE	
Date: 11/27//1	M St	2	
,	(Signature of Inventor)	Dave GOODEN	
Date:			
	(Signature of Inventor)	Mark DEWHIRST	
Date:			
	(Signature of Inventor)	Joseph A. HERBERT	
Date:	(Signature -Classes	DI DII O	_
	(Signature of Inventor)	Diane FELS	
Date:			_
	(Signature of Inventor)	Katherine S. HANSEN	

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	Mark DEWHIRST of:	3610 Barn View Place, Durham, NC 27705;	
	Joseph A. HERBERT	of: 2512 Carver Street, Durham, NC 27705;	
	Diane FELS of: 300 D	arby Creek Lane, Apt. 323, Morrisville, NC 27560;	and
	Katherine S. HANSEN	N of: 127 Trappers Run Drive, Cary, NC 27513	
			, respectively,
have invented cer	tain new and useful improve	ments in: ADHESIVE BONDING COMPOSITION	AND METHOD OF
(Application No.	13/102,277	, filed May 6, 2011	), and
WHEREAS,	(1) Immunolight, LLC (2) Duke University		

INSERT NAME AND AIRBRESS OF COMPANY OR OTHER ASSIGNEE

INSERT TITLE OF INVENTION

(hereinafter referred to as "ASSIGNEES") having places of business at: (1) 1901 St. Antoine Street. 6th Floor at Ford Field, Detroit, M1 48226; (2) 2020 West Main Street, Suite 10, Durham, NC 27705, respectively are desirous of jointly acquiring interests in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application(s)) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:			
		(Signature of Inventor)	Zakaryae FATHI
Date:		-	
		(Rignature of Investor)	James CLAYTON
Date:	·	·	
		(Signature of Leventer)	Harold WALDER
Date:		401	
		(Signature of Inventor)	Frederic A. BOURKE, Jr.
Date:	····	(Signature of Leventur)	
_		(adjusted as I investor)	Ian STANTON
Date:	<del></del>	(Signature of Inventor)	Jeanifer AYRES
Date:			Jeaniter ATRES
		(Signature of Inventor)	Joshua T. STECHER
Date:			
		(Eignature of Inventor)	Michael THERIEN
Date:			
		(Signature of Investor)	Eric TOONE
Date:		(Signature of Inventor)	DyreGOODEN
Date: 7	130 2014	Mn	Lewin
<u></u> -		(Signature of Inventor)	Mark DEWHIRST
Date:		_	
		(Signature of Enventor)	Joseph A. HERBERT
Date:		(Signature of Investor)	
Date:		fortherman At managem.]	Diane FELS
	· · · · · · · · · · · · · · · · · · ·	(Signature of Investor)	Katherine S, HANSEN

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INSERT NAMES AND RESIDENCE ALDRESS OF THE DOUBLORS

WHEREAS, I (WE	E)(1) Zakaryae FATHI, James C	AYTON, Harold WALDER and Frederic A.	BOUKKE, Jr. all of:
	c/o Immunolight, LLC, 1901	St. Antoine Street, 6th Floor at Ford Field, De	troit, MI 48226
	(2) Ian STANTON of: 5511	utterfly Lane, #303, Durham, NC 27707;	
	Jennifer AYRES of: 2121	Ramsgate Street, Raleigh, NC 27603;	
	Joshua T. STECHER of:	534 Sunlight Drive, Apt. 303, Durham, NC 2	7707;
	Michael THERIEN of: 6	ine Top Place, Durham, NC 27705;	
	Eric TOONE of: 2601 Ev	ns Street, Durham, NC 27705;	
	Dave GOODEN of: 3108	Ridgestone Pkwy., Durham, NC 27712;	
	Mark DEWHIRST of: 36	0 Barn View Place, Durham, NC 27705;	
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Date:			
		(Signature of Inventur)	James CLAYTON
Date:		· · · · · · · · · · · · · · · · · · ·	
		(Signature of lawcolor)	Harold WALDER
Date:			
		(Signature of inventor)	Frederic A. BOURKE, Jr.
Date:		(Signature of Inventor)	
		(24Sugars of 19 section)	lan STANTON
Date:		(Signature of Inventor)	Jennifia AYRES
		(alfantie of meeting)	Jennitia a i kes
Date:	No exe	(Signature of thventor)	Joshua T. STECHER
Date			
		(Signature of inventor)	Michael THERIEN
Date:			
		(Signature of Inventor)	Eric TOONE
Date:		(Signature of Inventor)	David MODEN
_		Providence and an anomaly \$	Dave GOODEN
Date:		(Signature of Inventor)	Mark DEWHIRST
Date: 00	1/21/2011	Sprench	a derliert
	LI V'M	Signature of Inventor)	Joseph A. HERBERT
Date:			
		(Signeral to enangle)	Diane FELS
Date:		(Signature of inventor)	Vallacina C HANCEN

INSERT NAMES AND RESIDENCE ADDRESS OF THE INVENTORS

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		(Signature of Inventor)	Jennifer AYRES
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_		(Signature of Inventor)	Joshua T. STECITER
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		(Signature of surestor)	Michael THERIEN
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		(Signature of Inventor)	Mark DEWHIRST
Date:			
	· · · · · · · · · · · · · · · · · · ·	(Signature of Inventor)	Joseph A. HERBERT
Date:	9/21/11	dian	efels
	.,	(Signature of Inventor)	Dilde FELS
Date:			
		(Signature of Inventor)	Katherine S. HANSEN

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0.1.1	(Signature of Inventor)	Diane FELS	
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	(Signature of Invertor)	Katherine S. HANSEN	

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PATENT REEL: 033422 FRAME: 0833

**RECORDED: 07/30/2014**