

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM427423

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
NANOCOMP TECHNOLOGIES, INC.		05/12/2017	Corporation: DELAWARE
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	PIVOTAL CAPITAL FUND, LP		
<b>Street Address:</b>	2882 Sand Hill Road, Suite 100		
<b>City:</b>	Menlo Park		
<b>State/Country:</b>	CALIFORNIA		
<b>Postal Code:</b>	94025		
<b>Entity Type:</b>	Limited Partnership: DELAWARE		
<b>PROPERTY NUMBERS Total: 1</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Serial Number:</b>	86247965	MIRALON	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	8586385130		
<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>	858-677-1400		
<b>Email:</b>	susan.reynolds@dlapiper.com		
<b>Correspondent Name:</b>	DLA Piper LLP (US)		
<b>Address Line 1:</b>	4365 Executive Drive, Suite 1100		
<b>Address Line 4:</b>	San Diego, CALIFORNIA 92121		
<b>NAME OF SUBMITTER:</b>	Matt Schwartz		
<b>SIGNATURE:</b>	/s/ Matt Schwartz		
<b>DATE SIGNED:</b>	05/12/2017		
<b>Total Attachments: 19</b>			
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## INTELLECTUAL PROPERTY SECURITY AGREEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT (this “**Agreement**”), dated as of May 12, 2017, is entered into by and between **NANOCOMP TECHNOLOGIES, INC.**, a Delaware corporation (the “**Grantor**”), and **PIVOTAL CAPITAL FUND, LP**, a Delaware limited partnership (the “**Lender**”).

### RECITALS

A. Pursuant to the Loan and Security Agreement, dated as of May 12, 2017, by and between the Grantor and the Lender (as amended, modified, supplemented or restated and in effect from time to time, the “**Loan Agreement**”), the Lender has agreed to make loans to the Grantor (collectively, the “**Loans**”).

B. In order to induce the Lender to enter into the Loan Agreement and other Loan Documents and to make Loans and other Credit Extensions to the Grantor upon the terms and subject to the conditions contained in the Loan Agreement, the Grantor has agreed, upon the terms contained in the Loan Agreement, to grant to the Lender continuing security interests in and Liens upon all Intellectual Property Collateral (as hereinafter defined) of the Grantor in order to secure all of the Obligations (as defined below).

C. The Grantor has granted to the Lender continuing security interests in and Liens upon all of the Intellectual Property Collateral of the Grantor pursuant to and upon the terms and conditions contained in the Loan Agreement.

D. Upon the terms contained in the Loan Agreement, the Grantor has agreed to execute and deliver to the Lender this Agreement, which is supplemental to the Loan Agreement and the other Loan Documents.

### AGREEMENT

NOW, THEREFORE, in consideration of the foregoing and the mutual covenants contained herein and the other Loan Documents, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantor hereby absolutely, unconditionally and irrevocably agrees with the Lender as follows:

1. Definitions. All capitalized terms used but not otherwise defined herein shall have the meanings given to them in the Loan Agreement and the following terms shall have (unless otherwise provided elsewhere in this Agreement) the following respective meanings (such meanings being equally applicable to both the singular and plural forms of the terms defined):

(a) “**Intellectual Property Collateral**” means all of the rights, title and interests of the Grantor in, to and under all of the following, whether presently existing or at any time or from time to time hereafter created, arising or acquired:

(i) all Trademarks, including, without limitation, all of those referred to in Schedule I hereto;

(ii) all Patents, including, without limitation, all of those referred to in Schedule II hereto;

(iii) all Copyrights, including, without limitation, all of those referred to in Schedule III hereto;

(iv) all trade secrets and trade secret rights, including, without limitation, any rights to unpatented inventions, know-how, and operating manuals;

(v) all source code;

(vi) all design rights;

(vii) all licenses and license rights with respect to any or all of the foregoing;

(viii) all goodwill of the businesses of the Grantor connected with the use of, or otherwise symbolized by, any or all of the foregoing; and

(ix) all income, products and proceeds of each of the foregoing, including, without limitation, all royalties and all claims by the Grantor against third parties for past, present or future (A) infringement, misappropriation, breach or dilution of any Copyright, Patent or Trademark, and (B) injury to any goodwill associated with any Copyright, Patent or Trademark, with the right, but not the obligation to sue for and collect, or otherwise recover damages.

Notwithstanding the foregoing, the term "Intellectual Property Collateral" shall not include any "intent-to-use" trademark at any times prior to the first use thereof, whether by the actual use thereof in commerce, the recording of a statement of use with the United States Patent and Trademark Office or otherwise, but only to the extent the granting of a security interest in such "intent to use" trademark would render invalid Grantor's rights to such trademark under applicable law.

(b) **"Loan Agreement"** have the meanings given to such terms in the Recitals above.

All other terms contained in this Agreement shall, unless the context shall indicate otherwise, have the meanings provided for by the Code to the extent that such other terms are used or defined therein and are not otherwise defined in the Loan Agreement. References to the Loan Agreement include any amendment, modification, supplement, restatement, replacement or refinancing (in whole or in part) thereof, whether by way of increase or reduction to any of the commitments or the principal amount of any of the Credit Extensions, addition or elimination of any credit facilities thereunder, extension of any term, addition or deletion of any party thereto, or otherwise.

2. **Grant of Security Interests.** To secure the prompt and complete payment and performance of all and each of the Obligations, as and when the same shall become due and payable, whether at stated maturity, by required prepayment, declaration, acceleration, demand or otherwise (including the payment of amounts that would become due and payable but for the operation of the automatic stay under the Bankruptcy Code), the Grantor hereby grants to the Lender a continuing security interest in and Lien upon all of the rights, title and interests of the Grantor to, in and under the Intellectual Property Collateral. The Grantor authorizes and requests that the Register of Copyrights, the Commissioner of Patents and Trademarks and any other applicable government officer record this Agreement.

3. **Right to Sue.** From and after an Event of Default, subject to the terms of the Loan Agreement, Lender shall have the right, but shall in no way be obligated, to bring suit in its own name or on behalf of Grantor, to enforce Grantor's rights in the Intellectual Property Collateral. If Lender commences any such suit, Grantor shall, at the request of Lender, do all lawful acts and execute and deliver all proper documents or information that may be necessary or desirable to aid and support Lender in such enforcement. Grantor shall promptly, upon demand, reimburse and indemnify Lender for all of Lender's costs and expenses, including reasonable attorney's fees, related to Lender's exercise of the above mentioned rights.

4. **Representations and Warranties.** The Grantor represents and warrants to the Lender that the Grantor does not have any ownership interest in, or title to, any registered Trademark, registered Patent or registered Copyright or any applications therefor, **except** as set forth in Schedule I, Schedule II and Schedule III hereto. This Agreement is effective to create valid and continuing security interests in and Liens upon, and, upon the recording hereof with the United States Patent and Trademark Office and the United States Copyright Office, and the filing of appropriate financing statements, perfected Liens in favor of the Lender on, the Grantor's Intellectual Property Collateral, to the extent such perfection can be achieved by making such filings; and such perfected security interests and Liens shall be enforceable as such as against any and all creditors of or purchasers from the Grantor.

5. Loan Agreement. The security interests and Liens granted by the Grantor to the Lender pursuant to this Agreement are granted in conjunction with the security interests and Liens granted by the Grantor to the Lender pursuant to the Loan Agreement and the other Loan Documents. The Grantor and the Lender expressly agree that each of the security interests and Liens granted under this Agreement and the Loan Agreement in the Intellectual Property Collateral are intended to be treated as a single security interest for purposes of Division 9 of the Code and other applicable law. The exercise by the Lender of any rights or remedies with respect to any of the Intellectual Property Collateral shall be deemed to be an exercise of such rights or remedies in connection with both this Agreement and also the Loan Agreement. In the event of any inconsistency between the terms and conditions of this Agreement and the Loan Agreement, then the terms and conditions of the Loan Agreement shall prevail.

6. Reinstatement. This Agreement shall remain in full force and effect and continue to be effective in the event that any petition shall be filed by or against the Grantor for liquidation or reorganization, should the Grantor become insolvent or make an assignment for the benefit of any creditor or creditors or should a receiver or trustee be appointed for all or any significant part of the Grantor's assets, and shall continue to be effective or be reinstated, as the case may be, if at any time payment and performance of the Obligations, or any part thereof, is, pursuant to applicable law, rescinded or reduced in amount, or must otherwise be restored or returned, whether as a "voidable preference," "fraudulent conveyance," or otherwise, all as though such payment or performance had not been made. In the event that any payment, or any part thereof, is rescinded, reduced, restored or returned, the Obligations shall be reinstated and shall be deemed reduced only by such amount paid in cash and not so rescinded, reduced, restored or returned.

7. Notices. Except as otherwise provided herein, whenever it is provided herein that any notice, demand, request, consent, approval, declaration or other communication shall or may be given to or served upon any of the parties hereto by any other party hereto, or whenever any of the parties hereto desires to give and serve upon any other party hereto any communication with respect to this Agreement, each such notice, demand, request, consent, approval, declaration or other communication shall be in writing and shall be given in the manner, and deemed received, as provided for in the notice provisions of the Loan Agreement.

8. Choice Of Law And Venue; Jury Trial Waiver. THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF CALIFORNIA WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAW. EACH OF THE GRANTOR AND THE LENDER HEREBY SUBMITS TO THE EXCLUSIVE JURISDICTION OF THE STATE AND FEDERAL COURTS LOCATED IN THE COUNTY OF SANTA CLARA, STATE OF CALIFORNIA; PROVIDED, HOWEVER, THAT NOTHING IN THIS AGREEMENT SHALL BE DEEMED TO OPERATE TO PRECLUDE LENDER FROM BRINGING SUIT OR TAKING OTHER LEGAL ACTION IN ANY OTHER JURISDICTION TO REALIZE ON THE COLLATERAL OR ANY OTHER SECURITY FOR THE OBLIGATIONS, OR TO ENFORCE A JUDGMENT OR OTHER COURT ORDER IN FAVOR OF LENDER. EACH OF THE PARTIES HERETO HEREBY AGREES TO BE BOUND BY THE REFERENCE PROVISION SET FORTH IN SECTION 11 OF THE LOAN AGREEMENT, WHICH REFERENCE PROVISION IS HEREBY INCORPORATED HEREIN WITH THE SAME FULL FORCE AND EFFECT AS IF SET FORTH HEREIN IN FULL.

EACH OF LENDER AND GRANTOR ACKNOWLEDGE THAT THE RIGHT TO TRIAL BY JURY IS A CONSTITUTIONAL ONE, BUT THAT IT MAY BE WAIVED UNDER CERTAIN CIRCUMSTANCES. TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, GRANTOR AND LENDER EACH WAIVE THEIR RIGHT TO A JURY TRIAL OF ANY CLAIM OR CAUSE OF ACTION ARISING OUT OF OR BASED UPON THIS AGREEMENT, THE LOAN DOCUMENTS OR ANY CONTEMPLATED TRANSACTION, INCLUDING CONTRACT, TORT, BREACH OF DUTY AND ALL OTHER CLAIMS. THIS WAIVER IS A MATERIAL INDUCEMENT FOR BOTH PARTIES TO ENTER INTO THIS AGREEMENT. EACH PARTY HAS REVIEWED THIS WAIVER WITH ITS COUNSEL.

9. Delivery by Facsimile, etc. This Agreement may be executed in one or more counterparts, each of which, when executed and delivered, shall be deemed an original, and all of which, when taken together, shall constitute but one and the same Agreement. Delivery of the signature pages to this Agreement by facsimile or by electronic mail in portable document format (.pdf) shall be as effective as delivery of manually executed counterparts of this Agreement. Any party delivering an executed counterpart of this Agreement by facsimile also

shall deliver a manually executed counterpart of this Agreement, but the failure to deliver such manually executed counterpart shall not affect the validity, enforceability, or binding effect hereof.

[Remainder of Page Left Blank]

IN WITNESS WHEREOF, the Grantor and the Lender have caused this Agreement to be executed and delivered by its duly authorized officer or other representative as of the date first set forth above.

The Grantor:

NANOCOMP TECHNOLOGIES, INC.

By:   
Name: Paul D. Hallee  
Title: Chief Financial Officer

Address for notices:

57 Daniel Webster Highway  
Merrimack, NH 03054  
Fax: 603-689-2703

IN WITNESS WHEREOF, the Grantor and the Lender have caused this Agreement to be executed and delivered by its duly authorized officer or other representative as of the date first set forth above.

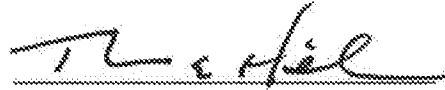
The Lender:

**PIVOTAL CAPITAL FUND, LP**

By: PIVOTAL GP PARTNERS, LLC

Its: General Partner

By:



Name: Thomas E. Niehaus

Title: Manager

Address for notices:

2882 Sand Hill Road, Suite 100  
Menlo Park, CA 94025

*[Signature Page to Intellectual Property Security Agreement]*

**TRADEMARK**  
**REEL: 006057 FRAME: 0432**



**SCHEDULE I**

**TRADEMARKS AND TRADEMARK APPLICATIONS**

Trademarks and Service Marks and Applications Therefor

<u>Description</u>	<u>Serial/Registration No.</u>	<u>File Date</u>
MIRALON™	86247965	4/10/14
Bexite™	86247967 (ABANDONED)	4/10/14

Trade Names

None

**SCHEDULE II**  
**PATENTS AND PATENTS APPLICATIONS**

See attached

Docket Number	Country	Title	Serial #/ Filing Date	Publication #/ Pub Date	Status	Comments
083608-010102/EP	Europe	SYSTEMS AND METHODS FOR SYNTHESIS OF EXTENDED LENGTH NANOSTRUCTURES	<b>05761083.4</b> 1/14/2005	<b>1709213</b> 10/11/2006	PENDING Published	Response to Examination Report due 8/7/17
083608-010609/EP/DIV	Europe	NANOSTRUCTURED ANTENNAS AND METHODS OF MANUFACTURING SAME	<b>13160060.3</b> 12/20/2013	<b>2607518</b> 06/26/2013	PENDING Published	Rule 71(3) EPC Comm. - Intention to Grant deadline 5/10/17
083608-011012/EP/DIV2	Europe	APPARATUS AND METHOD FOR FORMATION AND COLLECTION OF NANOFIBROUS NON-WOVEN SHEET	<b>14193087.5</b> 11/13/2014	<b>2860153</b> 04/15/2015	PENDING Published	
083608-011013/DIV2	United States of America	SYSTEMS AND METHODS FOR FORMATION AND HARVESTING OF NANOFIBROUS MATERIALS	<b>14633,765</b> 2/27/2015	<b>2015-0176163-A1</b> 6/25/2015	PENDING Published	Restriction Requirement due 6/10/17, ext 10/10/17
083608-011015/CON	United States of America	SYSTEMS AND METHODS FOR FORMATION AND HARVESTING OF NANOFIBROUS MATERIALS	<b>15071,726</b> 3/16/16	<b>2016-0250823-A1</b> 9/1/2016	PENDING Published	
083608-011301/US	United States of America	MATERIALS FOR THERMAL PROTECTION AND METHODS OF MANUFACTURING SAME	<b>12038,408</b> 2/27/2008	<b>2009-0047513-A1</b> 02/19/2009	PENDING Published	Final OA due 5/8/17, ext 8/8/17
083608-011307/EP/DIV	Europe	MATERIALS FOR THERMAL PROTECTION AND METHODS OF MANUFACTURING SAME	<b>15178317.2</b> 7/24/15	<b>2962986</b> 1/6/2016	Allowed	National Validation deadline 7/5/17
083608-011705/EP	Europe	CHEMICALLY-ASSISTED ALIGNMENT OF NANOTUBES WITHIN EXTENSIBLE STRUCTURES	<b>08828283.5</b> 7/9/2008	<b>2173655</b> 4/14/2010	PENDING Published	
083608-011707/DIV	United States of America	CHEMICALLY-ASSISTED ALIGNMENT OF NANOTUBES WITHIN EXTENSIBLE STRUCTURES	<b>13546,285</b> 7/11/2012	<b>2012-0276799</b> 11/1/2012	PENDING Published	Final OA due 7/7/17, ext 10/7/17

083608-011809/DIV	United States of America	ELECTRICALLY AND THERMALLY NON-METALLIC CONDUCTIVE NANOSTRUCTURE-BASED ADAPTERS	14/955,575 12/1/15	2016-0086695-A1 3/24/2016	PENDING Published	
083608-012105/EP	Europe	CARBON NANOTUBE-BASED COAXIAL ELECTRICAL CABLES AND WIRING HARNESS	09743708.1 5/7/2009	2279512 02/02/11	PENDING Published	
083608-012318/JP/DIV	Japan	NANOSTRUCTURE COMPOSITE SHEETS AND METHODS OF USE	2015-100293 5/15/2015	2015-187077 10/29/2015	PENDING	OA due due 5/10/17
083609-012319/JP/DIV2	Japan	NANOSTRUCTURE COMPOSITE SHEETS AND METHODS OF USE	2015-214158 10/30/2015	2016-074594 5/12/2016	PENDING	
083608-012406/EP	Europe	NANOSTRUCTURE-BASED HEATING DEVICES AND METHODS OF USE	09743711.5 5/7/2009	2279522 02/02/2011	Allowed	Per 4/25/17 - Validated in France, Germany, Italy, Netherlands and UK
083608-012705/EP	Europe	HYBRID CONDUCTORS AND METHOD OF MAKING SAME	10797843.9 7/8/2010	2451635 05/16/2012	PENDING Published	Response to Search Report due 6/2/17
083608-013003/EP	Europe	CARBON NANOTUBE BASED SUPER INSULATOR	12732279.0 1/4/2012	2661369 11/13/2013	PENDING Published	
083608-013005/US	United States of America	CARBON NANOTUBE BASED SUPER INSULATOR	14/230,527 3/31/2014		PENDING	
083608-013201/US	United States of America	NANOTUBE MATERIAL HAVING CONDUCTIVE DEPOSITS TO INCREASE CONDUCTIVITY	13/859,607 4/9/2013	US-2013-0264116-A1 10/10/2013	PENDING Published	Non-Final OA due 4/10/17, ext 7/10/17
083608-013207/EP	Europe	NANOTUBE MATERIAL HAVING CONDUCTIVE DEPOSITS TO INCREASE CONDUCTIVITY	13774950.3 4/9/2013	2837005 2/18/2015	PENDING National Phase	
083608-013208/JP	Japan	NANOTUBE MATERIAL HAVING CONDUCTIVE DEPOSITS TO INCREASE CONDUCTIVITY	2015-505858 4/9/2013		PENDING National Phase	OA due due 6/29/17
083608-013401/US	United States of America	EXFOLIATING-DISPERSING AGENTS FOR NANOTUBES, BUNDLE AND FIBERS	14/244,177 4/3/2014	US-2014-0366773-A1 12/18/2014	PENDING Published	Non-Final OA due 5/17/17, ext 8/1/17
083608-013402/PCT	PCT	EXFOLIATING-DISPERSING AGENTS FOR NANOTUBES, BUNDLE AND FIBERS	PCT/US14/032827 4/3/2014	WO 2014/204561 12/24/2014	PENDING Published	

083608-013403/EP	Europe	EXFOLIATING-DISPERSING AGENTS FOR NANOTUBES, BUNDLE AND FIBERS	<b>14812969.5</b> 4/3/2014	<b>EP3010853</b> 4/27/16	PENDING Published	Response to Search Report due 7/19/17
083608-013404/JP	Japan	EXFOLIATING-DISPERSING AGENTS FOR NANOTUBES, BUNDLE AND FIBERS	<b>2016-521402</b> 4/3/2014	<b>2016-524586</b> 8/18/2016	PENDING Published	
083608-013901/US	United States of America	HIERARCHICALLY STRUCTURED CARBON NANOTUBE MATERIALS AND METHODS FOR PRODUCTION THEREOF	<b>14/952.427</b> 11/25/2014	<b>2016-0145784-A1</b> 5/26/2016	PENDING Published	
083608-013902/PCT	United States of America	HIERARCHICALLY STRUCTURED CARBON NANOTUBE MATERIALS AND METHODS FOR PRODUCTION THEREOF	<b>PCT/US15/062740</b> 11/25/2014	<b>WO 2016-086166</b> 6/2/2016	PENDING Published	30M National Phase deadline 5/26/2017 Instructed to nationalize in EP and JP on 3/15
083608-014101/US	United States of America	CARBON NANOTUBE STRUCTURES AND METHODS FOR PRODUCTION THEREOF	<b>15/014.579</b> 2/3/16	<b>2016-0222536-A1</b> 8/4/2016	PENDING Published	
083608-014102/PCT	United States of America	CARBON NANOTUBE STRUCTURES AND METHODS FOR PRODUCTION THEREOF	<b>PCT/US16/016362</b> 2/3/16	<b>WO 2016-126818</b> 8/11/2016	PENDING Published	30M National Phase deadline 8/3/17
083608-014201/US	United States of America	Directed Infrared Radiator Article	<b>15/299.763</b> 10/21/16		PENDING	
083608-014202/PCT	United States of America	Directed Infrared Radiator Article	<b>PCT/US16/058190</b> 10/21/16		PENDING	30M National Phase deadline 4/23/18
083608-014203/PRO	United States of America	Bolt Rope Construction for Directed Infrared Radiator	<b>62/400.213</b> 9/27/2016		PENDING	Domestic/Foreign Filing Deadline 9/27/2017
083608-014300/PRO	United States of America	Intumescant Nanostructured Materials and Methods of Manufacturing Same	<b>15/401.507</b> 1/9/2017		PENDING	Domestic/Foreign Filing Deadline 1/9/2018
083608-014301/PCT	United States of America	Intumescant Nanostructured Materials and Methods of Manufacturing Same	<b>PCT/US17/12722</b> 1/9/2017		PENDING	Response to pay add'l fees due 4/29/17 Domestic/Foreign Filing Deadline 1/9/2018

083608-013403/EP	Europe	EXFOLIATING-DISPERGING AGENTS FOR NANOTUBES, BUNDLE AND FIBERS	<b>14812969.5</b> 4/3/2014	<b>EP3010853</b> 4/27/16	PENDING Published	Response to Search Report due 7/19/17
083608-013404/JP	Japan	EXFOLIATING-DISPERGING AGENTS FOR NANOTUBES, BUNDLE AND FIBERS	<b>2016-521402</b> 4/3/2014	<b>2016-524586</b> 8/18/2016	PENDING Published	
083608-013901/US	United States of America	HIERARCHICALLY STRUCTURED CARBON NANOTUBE MATERIALS AND METHODS FOR PRODUCTION THEREOF	<b>14/952.427</b> 11/25/2014	<b>2016-0145784-A1</b> 5/26/2016	PENDING Published	
083608-013902/PCT	United States of America	HIERARCHICALLY STRUCTURED CARBON NANOTUBE MATERIALS AND METHODS FOR PRODUCTION THEREOF	<b>PCT/US15/062740</b> 11/25/2014	<b>WO 2016-086166</b> 6/2/2016	PENDING Published	30M National Phase deadline 5/26/2017 Instructed to nationalize in EP and JP on 3/15
083608-014101/US	United States of America	CARBON NANOTUBE STRUCTURES AND METHODS FOR PRODUCTION THEREOF	<b>15/014.579</b> 2/3/16	<b>2016-0222536-A1</b> 8/4/2016	PENDING Published	
083608-014102/PCT	United States of America	CARBON NANOTUBE STRUCTURES AND METHODS FOR PRODUCTION THEREOF	<b>PCT/US16/016362</b> 2/3/16	<b>WO 2016-126818</b> 8/11/2016	PENDING Published	30M National Phase deadline 8/3/17
083608-014201/US	United States of America	Directed Infrared Radiator Article	<b>15/299.763</b> 10/21/16		PENDING	
083608-014202/PCT	United States of America	Directed Infrared Radiator Article	<b>PCT/US16/058190</b> 10/21/16		PENDING	30M National Phase deadline 4/23/18
083608-014203/PRO	United States of America	Bolt Rope Construction for Directed Infrared Radiator	<b>62/400.213</b> 9/27/2016		PENDING	Domestic/Foreign Filing Deadline 9/27/2017
083608-014300/PRO	United States of America	Intumescent Nanostructured Materials and Methods of Manufacturing Same	<b>15/401.507</b> 1/9/2017		PENDING	Domestic/Foreign Filing Deadline 1/9/2018
083608-014301/PCT	United States of America	Intumescent Nanostructured Materials and Methods of Manufacturing Same	<b>PCT/US17/12722</b> 1/9/2017		PENDING	Response to pay add'l fees due 4/29/17 Domestic/Foreign Filing Deadline 1/9/2018

083608-014701/US	United States of America	SYSTEMS AND METHODS FOR COLORING CARBON NANOSTRUCTURES	<b>15/440,213</b> 2/23/17	PENDING	
083608-014702/PCT	United States of America	SYSTEMS AND METHODS FOR COLORING CARBON NANOSTRUCTURES	<b>PCT/US17/19039</b> 2/23/17	PENDING	30M National Phase deadline 7/23/18
083608-014800/PRO	United States of America	CNT Pulp for Lithium Ion Batteries	<b>15/351,912</b> 11/15/16	PENDING	Domestic/Foreign Filing Deadline 11/15/2017

<b>Bucket Number</b>	<b>Country</b>	<b>Title</b>	<b>Serial #/ Filing Date</b>	<b>Patent #/ Grant Date</b>	<b>Status</b>	<b>Comments</b>
083608-010101/AU	Australia	SYSTEMS AND METHODS FOR SYNTHESIS OF EXTENDED LENGTH NANOSTRUCTURES	<b>2005230961</b> 1/14/2005	<b>2005230961</b> 02/24/2011	ISSUED	
083608-010110/US	United States of America	SYSTEMS AND METHODS FOR SYNTHESIS OF EXTENDED LENGTH NANOSTRUCTURES	<b>11/035,471</b> 1/14/2005	<b>7,611,579</b> 11/3/2009	ISSUED	
083608-010305/JP	Japan	CARBON COMPOSITES MATERIALS AND METHODS OF MANUFACTURING SAME	<b>2008-510112</b> 5/2/2006	<b>5,349,042</b> 8/30/2013	ISSUED	
083608-010402/US	United States of America	SYSTEMS AND METHODS FOR THERMAL MANAGEMENT OF ELECTRONIC COMPONENTS	<b>11/413,512</b> 4/28/2006	<b>7,898,079</b> 03/01/2011	ISSUED	
083608-010404/AU	Australia	SYSTEMS AND METHODS FOR THERMAL MANAGEMENT OF ELECTRONIC COMPONENTS	<b>2006249601</b> 4/28/2006	<b>2006249601</b> 11/24/2011	ISSUED	
083608-010405/CA	Canada	SYSTEMS AND METHODS FOR HEAT TRANSFER	<b>2,609,712</b> 4/28/2006	<b>2,609,712</b> 4/7/2015	ISSUED	
083608-010407/JP	Japan	SYSTEMS AND METHODS FOR THERMAL MANAGEMENT OF ELECTRONIC COMPONENTS	<b>2008-513499</b> 4/28/2006	<b>4972640</b> 4/13/2012	ISSUED	
083608-010602/US	United States of America	NANOSTRUCTURED ANTENNAS AND METHODS OF MANUFACTURING SAME	<b>11/592,894</b> 11/3/2006	<b>7,714,798</b> 5/11/2010	ISSUED	
083608-010604/AU	Australia	NANOSTRUCTURED ANTENNAS AND METHODS OF MANUFACTURING SAME	<b>2006350110</b> 11/3/2006	<b>2006350110</b> 6/16/2011	ISSUED	



083608-010605/CA	Canada	NANOSTRUCTURED ANTENNAS AND METHODS OF MANUFACTURING SAME	2627977 11/3/2006	2627977 8/12/2014	ISSUED	
083608-010606/EP	Europe	NANOSTRUCTURED ANTENNAS AND METHODS OF MANUFACTURING SAME	6851749.9 11/3/2006	1,966,851 03/20/2013	ISSUED	Validated in Switzerland, Germany, France, United Kingdom, Italy, Netherlands and Japan
083608-010607/JP	Japan	NANOSTRUCTURED ANTENNAS AND METHODS OF MANUFACTURING SAME	2008-540155 11/3/2006	5072854 8/31/2012	ISSUED	
083608-011000/US	United States of America	SYSTEMS AND METHODS FOR FORMATION AND HARVESTING OF NANOFIBROUS MATERIALS	11/488,387 7/17/2006	7,993,620 8/9/2011	ISSUED	
083608-011003/AU	Australia	SYSTEMS AND METHODS FOR FORMATION AND HARVESTING OF NANOFIBROUS MATERIALS	2006345024 7/17/2006	2006345024 7/19/2012	ISSUED	
083608-011004/CA	Canada	SYSTEMS AND METHODS FOR FORMATION AND HARVESTING OF NANOFIBROUS MATERIALS	2616151 7/17/2006	2,616,151 11/3/2015	ISSUED	
083608-011005/EP/D IV	Europe	APPARATUS AND METHOD FOR FORMATION AND COLLECTION OF NANOFIBROUS NO- WOVN SHEET	11168621.8 7/17/2006	2,365,117 12/31/2014	ISSUED	Validated in Belgium, Switzerland, Germany, France, United Kingdom, Netherlands
083608-011006/JP	Japan	SYSTEMS AND METHODS FOR FORMATION AND HARVESTING OF NANOFIBROUS MATERIALS	2008-535518 7/17/2006	4864093 10/11/2011	ISSUED	
083608-011008/DIV	United States of America	SYSTEMS AND METHODS FOR FORMATION AND HARVESTING OF NANOFIBROUS MATERIALS	13/191,109 7/26/2011	8,999,285 04/17/2015	ISSUED	Reissue Due 4/7/17
083608-011009/AU/D IV	Australia	SYSTEMS AND METHODS FOR FORMATION AND HARVESTING OF NANOFIBROUS MATERIALS	2012201641 7/17/2006	2012201641 08/16/2012	ISSUED	

083608-011010/AU/D IV2	Australia	SYSTEMS AND METHODS FOR FORMATION AND HARVESTING OF NANOFIBROUS MATERIALS	<b>2012205268</b> 7/20/2012	<b>2012205268</b> 7/24/2014	ISSUED	
083608-011303/AU	Australia	MATERIALS FOR THERMAL PROTECTION AND METHODS OF MANUFACTURING SAME	<b>2008219693</b> 2/27/2008	<b>2008219693</b> 7/26/2012	ISSUED	
083608-011305/EP	Europe	MATERIALS FOR THERMAL PROTECTION AND METHODS OF MANUFACTURING SAME	<b>08726128.5</b> 2/27/2008	<b>EP2125359</b> 7/27/2016	ISSUED	<b>Renewal due 7/27/17</b>
083608-011306/JP	Japan	MATERIALS FOR THERMAL PROTECTION AND METHODS OF MANUFACTURING SAME	<b>2009-551705</b> 2/27/2008	<b>5595737</b> 9/24/2014	ISSUED	
083608-011501/US	United States of America	SYSTEMS AND METHODS FOR CONTROLLING CHIRALITY OF NANOTUBES	<b>12/180,300</b> 7/25/2008	<b>8,057,777</b> 11/15/2011	ISSUED	
083608-011506/JP	Japan	SYSTEMS AND METHODS FOR CONTROLLING CHIRALITY OF NANOTUBES	<b>2010-518417</b> 7/25/2008	<b>5496887</b> 5/21/2014	ISSUED	
083608-011601/US	United States of America	INJECTOR APPARATUS AND METHODS FOR PRODUCTION OF NANOSTRUCTURES	12/140,263 6/16/2008	9,061,913 6/23/2015	ISSUED	<b>Reissue Due 6/23/17</b>
083608-011701/US	United States of America	CHEMICALLY-ASSISTED ALIGNMENT FOR NANOTUBES WITHIN EXTENSIBLE STRUCTURES	<b>12/170,092</b> 7/9/2008	<b>8,246,886</b> 8/21/2012	ISSUED	
083608-011802/US	United States of America	ELECTRICALLY AND THERMALLY NON-METALLIC CONDUCTIVE NANOSTRUCTURE-BASED ADAPTERS	<b>12/187,278</b> 8/6/2008	<b>9,236,669</b> 12/22/2015	ISSUED	<b>Reissue fee due 1/12/18</b>

083608-012101/US	United States of America	CARBON NANOTUBE-BASED COAXIAL ELECTRICAL CABLES AND WIRING HARNESS	12/437,537 5/7/2009	8,847,074 09/30/2014	ISSUED	
083608-012106/JP	Japan	CARBON NANOTUBE-BASED COAXIAL ELECTRICAL CABLES AND WIRING HARNESS	2011-508687 5/7/2009	5674642 2/25/2015	ISSUED	
083608-012107/CON	United States of America	CARBON NANOTUBE-BASED COAXIAL ELECTRICAL CABLES AND WIRING HARNESS	14/472,850 8/29/2014	9,396,829 7/19/2016	ISSUED	Reissue due 7/19/2018
083608-012306/JP	Japan	NANOSTRUCTURE COMPOSITE SHEETS AND METHODS OF USE	2011-508688 5/7/2009	5,864,253 1/8/2016	ISSUED	
083608-012402/US	United States of America	NANOSTRUCTURE-BASED HEATING DEVICES AND METHODS OF USE	12/437,535 5/7/2009	9,198,232 11/24/2015	ISSUED	Reissue due 11/24/17
083608-012407/JP	Japan	NANOSTRUCTURE-BASED HEATING DEVICES AND METHODS OF USE	2011-508689 5/7/2009	5968621 7/15/2016	ISSUED	
083608-012701/US	United States of America	HYBRID CONDUCTORS AND METHOD OF MAKING SAME	12/580,994 10/16/2009	8,354,593 1/15/2013	ISSUED	Reissue due 7/19/18
083608-012706/JP	Japan	HYBRID CONDUCTORS AND METHOD OF MAKING SAME	2012-519729 7/8/2010	5934643 5/13/2016	ISSUED	
083608-013001/US	United States of America	NANOTUBE BASED SUPER INSULATOR	13/343,366 1/4/2012	8,722,171 5/13/2014	ISSUED	
083608-013004/JP	Japan	CARBON NANOTUBE BASED SUPER INSULATOR	2013-548480 1/4/2012	6014603 9/30/2016	ISSUED	
083608-013106/JP	Japan	SYSTEMS AND METHODS FOR NANOSCOPICALLY ALIGNED CARBON NANOTUBES	2014-523088 7/27/2012	5,980,327 8/5/2015	ISSUED	

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083608- 012406/EP	Europe	NANOSTRUCTURE-BASED HEATING DEVICES AND METHODS OF USE	<b>09743711.5</b> 5/7/2009		Allowed	Per 4/25/17 - Validated in France, Germany, Italy, Netherlands and UK
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None.