

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM394977

| | | | |
|---|------------------------------------|----------------------------|-----------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT | | |
| NATURE OF CONVEYANCE: | SECURITY INTEREST | | |
| CONVEYING PARTY DATA | | | |
| Name | Formerly | Execution Date | Entity Type |
| Ascent Solar Technologies, Inc. | | 07/13/2016 | Corporation: DELAWARE |
| RECEIVING PARTY DATA | | | |
| Name: | RDW Capital, LLC | | |
| Street Address: | 16850 Collins Ave | | |
| Internal Address: | STE 112-341 | | |
| City: | Sunny Isles Beach | | |
| State/Country: | FLORIDA | | |
| Postal Code: | 33160 | | |
| Entity Type: | Limited Liability Company: FLORIDA | | |
| PROPERTY NUMBERS Total: 10 | | | |
| Property Type | Number | Word Mark | |
| Registration Number: | 4433827 | ENERPLEX KICKR | |
| Registration Number: | 4441391 | ENERPLEX SURFR | |
| Registration Number: | 4837477 | ENERPLEX GENERATR | |
| Registration Number: | 3971627 | WAVESOL | |
| Registration Number: | 4441347 | ENERPLEX JUMPR | |
| Registration Number: | 4933190 | ENERPLEX COMMANDR | |
| Registration Number: | 4401811 | TRANSFORMING EVERYDAY LIFE | |
| Registration Number: | 4441523 | ENERPLEX | |
| Registration Number: | 4401807 | ENERPLEX | |
| Registration Number: | 4871122 | ENERPLEX PACKR | |
| CORRESPONDENCE DATA | | | |
| Fax Number: | | | |
| <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> | | | |
| Phone: | 2126030490 | | |
| Email: | dc@robinsonbrog.com | | |
| Correspondent Name: | David Cykiert | | |
| Address Line 1: | 875 Third Ave | | |

OP \$265.00 4433827

Address Line 2: 9th Floor, c/o David Cykiert
Address Line 4: New York, NEW YORK 10022

| | |
|---------------------------|----------------------|
| NAME OF SUBMITTER: | David Cykiert |
| SIGNATURE: | /David Cykiert, Esq/ |
| DATE SIGNED: | 08/15/2016 |

Total Attachments: 13
source=00807381#page1.tif
source=00807381#page2.tif
source=00807381#page3.tif
source=00807381#page4.tif
source=00807381#page5.tif
source=00807381#page6.tif
source=00807381#page7.tif
source=00807381#page8.tif
source=00807381#page9.tif
source=00807381#page10.tif
source=00807381#page11.tif
source=00807381#page12.tif
source=00807381#page13.tif

INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT (the “Agreement”) is entered into as of July 13, 2016, by and among (i) Ascent Solar Technologies, Inc., a Delaware corporation (the “Issuer”), and (ii) any subsidiary and affiliate of the Issuer listed on Schedule 1 attached hereto that is a signatory hereto either now or joined in the future (the “Subsidiaries”; and jointly, severally, and collectively with the Issuer, the “Grantors”) in favor of RDW Capital, LLC (the “Secured Party”).

WHEREAS, in connection with the Securities Purchase Agreement dated July 13, 2016 among the Secured Party and the Issuer (as amended, supplemented and restated from time to time, the “Purchase Agreement”), the Issuer has agreed, upon the terms and subject to the conditions of the Purchase Agreement, to issue to the Secured Party convertible notes as set forth in the Purchase Agreement (collectively along with all other debentures or loan instruments, as each may be amended, supplemented and restated from time to time, the “Convertible Notes”);

WHEREAS, reference is made to that certain Security Agreement, dated as of the date hereof (as amended, restated, supplemented or otherwise modified from time to time, the “Security Agreement”), entered into by and among the Grantors and the Secured Party, which secures certain now existing and future arising obligations owing to the Secured Party (as defined in the Security Agreement) under the Transaction Documents as provided in the Security Agreement;

WHEREAS, pursuant to the Security Agreement, each Grantor is required to execute and deliver to the Secured Party this Agreement;

WHEREAS, pursuant to the terms of the Security Agreement, the Grantors have granted to for the benefit of the Secured Party, a security interest in substantially all the assets of the Grantors, including all right, title and interest of the Grantors in, to and under all now owned and hereafter acquired (1) trademarks, patents, and copyrights; (2) trademark applications, patent applications, and copyright applications; and (3) trademark licenses, patent licenses, and copyright licenses, and all products and proceeds thereof, to secure the payment of the Obligations (as defined in the Security Agreement); and

WHEREAS, capitalized terms used but not defined herein have the respective meanings ascribed thereto in the Security Agreement.

NOW, THEREFORE, in consideration of the mutual agreements set forth herein and for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. Each Grantor hereby grants for the benefit of the Secured Party, to secure the Obligations, a continuing security interest in all of each Grantor’s right, title and interest in, to and under the following, whether presently existing or hereafter created or acquired:

(a) each United States and foreign trademark and trademark application, including, without limitation, each United States federally registered trademark and

trademark application referred to in Schedule 1 attached hereto, together with any reissues, continuations or extensions thereof and all goodwill associated therewith;

(b) each trademark license, including, without limitation, each trademark license listed on Schedule 1 attached hereto, together with all goodwill associated therewith;

(c) all products and proceeds of the foregoing items (a) and (b), including, without limitation, any claim by the Grantors against third parties for past, present or future infringement, misappropriation, dilution, violation or other impairment of any trademark, including, without limitation, any trademark referred to in Schedule 1 attached hereto, any trademark issued pursuant to a trademark application referred to in Schedule 1 and any trademark licensed under any trademark license listed on Schedule 1 attached hereto (items (a) through (c) being herein collectively referred to as the "Trademark Collateral").

(d) each United States and foreign patent and patent application, including, without limitation, each United States federally registered patent and patent application referred to in Schedule 2 attached hereto, together with any reissues, continuations or extensions thereof and all goodwill associated therewith;

(e) each patent license, including, without limitation, each patent license listed on Schedule 2 attached hereto, together with all goodwill associated therewith;

(f) all products and proceeds of the foregoing items (d) and (e), including, without limitation, any claim by the Grantors against third parties for past, present or future infringement, misappropriation, dilution, violation or other impairment of any patent, including, without limitation, any patent referred to in Schedule 2 attached hereto, any trademark issued pursuant to a patent application referred to in Schedule 2 and any patent licensed under any patent license listed on Schedule 2 attached hereto (items (d) through (f) being herein collectively referred to as the "Patent Collateral").

(g) each United States and foreign copyright and copyright application, including, without limitation, each United States federally registered copyright and copyright application referred to in Schedule 3 attached hereto, together with any reissues, continuations or extensions thereof and all goodwill associated therewith;

(h) each copyright license, including, without limitation, each copyright license listed on Schedule 3 attached hereto, together with all goodwill associated therewith;

(i) all products and proceeds of the foregoing items (g) and (h), including, without limitation, any claim by the Grantors against third parties for past, present or future infringement, misappropriation, dilution, violation or other impairment of any copyright, including, without limitation, any copyright referred to in Schedule 3 attached hereto, any copyright issued pursuant to a copyright application referred to in Schedule 3 and any copyright licensed under any copyright license listed on Schedule 3 attached hereto (items (g) through (i) being herein collectively referred to as the "Copyright").

Collateral"; items (a) through (i) being herein (i.e., the Trademark Collateral, the Patent Collateral, and the Copyright Collateral) collectively referred to as the "IP Collateral").

2. This security interest is granted in conjunction with the security interests granted to the Secured Party, pursuant to the Security Agreement. The Grantors hereby acknowledge and affirm that the rights and remedies of the Secured Party with respect to the security interest in the IP Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.

3. The Grantors shall give Secured Party prior written notice of no less than five (5) Business Days before filing any additional application for registration of any trademark and prompt notice in writing of any additional trademark registrations, patent registration, or copyright registrations granted therefor after the date hereof. Without limiting Grantors' obligations under this paragraph, Grantors hereby authorize Secured Party unilaterally to modify this Agreement by amending Schedules 1, 2, or 3 to include any future United States registered trademarks, patents, copyrights or applications therefor of Grantors. Notwithstanding the foregoing, no failure to so modify this Agreement or amend Schedules 1, 2, or 3 shall in any way affect, invalidate or detract from Secured Party's continuing security interest in all Collateral, whether or not listed on Schedule 1, 2, or 3.

4. Grantors hereby agree that, anything herein to the contrary notwithstanding, such Grantors shall assume full and complete responsibility for the prosecution, defense, enforcement or any other necessary or desirable actions in connection with their trademarks subject to the security interest hereunder.

5. This Agreement may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Signature pages may be detached from multiple separate counterparts and attached to a single counterpart.

6. This Agreement is a Transaction Document.

7. This Agreement shall be construed and enforced in accordance with, and all questions concerning the construction, validity, interpretation and performance of this Agreement and all disputes arising hereunder shall be governed by, the laws of the State of New York, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of New York or any other jurisdictions) that would cause the application of the laws of any jurisdictions other than the State of New York. The parties hereto (a) agree that any legal action or proceeding with respect to this Agreement or any other agreement, document, or other instrument executed in connection herewith or therewith, shall be brought in any state or federal court located within the City of New York, New York, (b) irrevocably waive any objections which either may now or hereafter have to the venue of any suit, action or proceeding arising out of or relating to this Agreement, or any other agreement, document, or other instrument executed in connection herewith, brought in the aforementioned courts and (c) further irrevocably waive any claim that any such suit, action, or proceeding brought in any such court has been brought in an inconvenient forum.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, the parties hereto have executed this Intellectual Property Security Agreement as of the date first above written.

GRANTORS:

ASCENT SOLAR TECHNOLOGIES, INC.

By _____
Name: Victor Lee
Title: CEO

ASCENT SOLAR (ASIA) PTE. LTD.

By _____
Name: Victor Lee
Title: Managing Director

ASCENT SOLAR (SHENZHEN) CO. LTD.

By _____
Name: Victor Lee
Title: Legal Representative

IN WITNESS WHEREOF, the parties hereto have executed this Intellectual Property Security Agreement as of the date first above written.

SECURED PARTY:

RDW CAPITAL, LLC

By: _____
Name:
Title:

SCHEDULE 1
to
INTELLECTUAL PROPERTY SECURITY AGREEMENT

Trademark Collateral

| REG NO. | COUNTRY | MARK |
|----------------|----------------|--|
| 4,433,827 | US | EnerPlex Kickr |
| 4,441,391 | US | EnerPlex Surfr |
| 4,837,477 | US | EnerPlex Generatr |
| 3,971,627 | US | WAVESOL |
| 4,441,347 | US | EnerPlex Jumpr |
| 4,933,190 | US | EnerPlex Commandr |
| 4,401,811 | US | TRANSFORMING EVERYDAY LIFE |
| 4,441,523 | US | EnerPlex (and non-grid design) |
| 4,401,807 | US | EnerPlex (and design) |
| 4,871,122 | US | EnerPlex Packr |
| 1,527,553 | AU | EnerPlex and Design |
| 1,554,970 | AU | EnerPlex Jumpr |
| 1,554,971 | AU | EnerPlex Kickr |
| 1,559,525 | AU | EnerPlex Surfr |
| 1,559,524 | AU | EnerPlex (and non-grid design) |
| 1,597,385 | AU | EnerPlex Packr |
| 1,606,854 | AU | ALWAYS IN CHARGE |
| TMA898,815 | CA | EnerPlex Jumpr |
| TMA898,821 | CA | EnerPlex Kickr |
| TMA906,801 | CA | EnerPlex Surfr |
| 12524230 | CN | EnerPlex Jumpr |
| 12524231 | CN | EnerPlex Kickr |
| 12,701,320 | CN | EnerPlex Surfr |
| 12765854 | CN | EnerPlex (and non-grid design) |
| 13789699 | CN | EnerPlex Packr |
| 14052533 | CN | ALWAYS IN CHARGE |
| 13789700 | CN | EnerPlex Packr |
| 15105857 | CN | EnerPlex Generatr |
| 11355369 | EM | EnerPlex and Design |
| 11790177 | EM | EnerPlex Jumpr |
| 11801206 | EM | EnerPlex Kickr |
| 11853471 | EM | EnerPlex Surfr |
| 11853876 | EM | EnerPlex (and non-grid design) |
| 12092094 | EM | ALWAYS IN CHARGE |
| 13147574 | EM | EnerPlex Generatr |
| 302442717 | HK | EnerPlex and Design |
| 302595952 | HK | EnerPlex Jumpr |
| 302603150 | HK | EnerPlex Kickr |
| 302622825 | HK | EnerPlex Surfr |
| 302622898 | HK | EnerPlex (and non-grid design) |
| 302847916 | HK | EnerPlex Packr |
| 302521115 | HK | TRANSFORMING EVERYDAY LIFE |
| 303091284 | HK | EnerPlex Generatr |
| 302902752 | HK | EnerPlex (and Design) ALWAYS IN CHARGE |

| | | |
|-----------------|----|--|
| IDM000472355 | ID | EnerPlex and Design |
| IDM000479815 | ID | TRANSFORMING EVERYDAY LIFE |
| IDM000489468 | ID | EnerPlex Jumpr |
| 40-1093902 | KR | EnerPlex Always in Charge (and design) |
| 40-1114723 | KR | EnerPlex Generatr |
| 40-1020248 | KR | EnerPlex and Design |
| 40-1033457 | KR | EnerPlex Jumpr |
| 40-1033491 | KR | EnerPlex Kickr |
| 40-1033488 | KR | EnerPlex Surfr |
| 40-1040564 | KR | TRANSFORMING EVERYDAY LIFE |
| 40-1048532 | KR | EnerPlex (and non-grid design) |
| 40-1093332 | KR | EnerPlex Packr |
| N/89185 | MO | EnerPlex Generatr |
| N/75202 | MO | EnerPlex Jumpr |
| N/75398 | MO | EnerPlex Kickr |
| N/75728 | MO | EnerPlex Surfr |
| N/81856 | MO | EnerPlex Packr |
| N/93900 | MO | EnerPlex Always in Charge (and Design) |
| N/101376 | MO | EnerPlex (and non-grid design) |
| 2013064302 | MY | EnerPlex Packr |
| 2013054491 | MY | EnerPlex Kickr |
| 2013055130 | MY | EnerPlex Surfr |
| 2013007376 | MY | EnerPlex (and non-grid design) |
| 2013051245 | MY | TRANSFORMING EVERYDAY LIFE |
| 2013054235 | MY | EnerPlex Jumpr |
| 4-2013-005062 | PH | EnerPlex Jumpr |
| 4-2013-005439 | PH | EnerPlex Kickr |
| 4-2014-000057 | PH | EnerPlex Packr |
| 4-2013-006199 | PH | EnerPlex Surfr |
| 4-2013-00006200 | PH | EnerPlex (and non-grid design) |
| 329699 | PK | EnerPlex and Design |
| 352282 | PK | EnerPlex Packr |
| 341115 | PK | EnerPlex Surfr |
| 352281 | PK | EnerPlex Packr |
| T1217709F | SG | EnerPlex and Design |
| T1307002C | SG | EnerPlex Jumpr |
| T1307338C | SG | EnerPlex Kickr |
| T1308608F | SG | EnerPlex Surfr |
| T1308445H | SG | EnerPlex (and non-grid design) |
| T1402602H | SG | ALWAYS IN CHARGE |
| T1320809B | SG | EnerPlex Packr |
| T1412346E | SG | EnerPlex Generatr |
| T1302709H | SG | TRANSFORMING EVERYDAY LIFE |
| 1695117 | TW | EnerPlex Generatr |
| 256735 | VN | EnerPlex Generatr |
| 2013/03984 | ZA | TRANSFORMING EVERYDAY LIFE |
| 2013/11618 | ZA | EnerPlex Jumpr |
| 2013/11619 | ZA | EnerPlex Kickr |
| 2013/13666 | ZA | EnerPlex Surfr |
| 2013/13667 | ZA | EnerPlex (and non-grid design) |
| 2013/35457 | ZA | EnerPlex Packr |
| 2013/35458 | ZA | EnerPlex Packr |
| 2014/04393 | ZA | ALWAYS IN CHARGE |

SCHEDULE 2
to
INTELLECTUAL PROPERTY SECURITY AGREEMENT

Patent Collateral

US Patents (Design & Utility)

| Patent No | Title/Mark | Application No | Application Date | Grant/Reg Date |
|-----------|---|----------------|------------------|----------------|
| 7,271,333 | Apparatus and Method of Production of Thin Film Photovoltaic Modules | 10/197,813 | 07/19/2002 | 09/18/2007 |
| 7,812,247 | Flexible Photovoltaic Array With Integrated Wiring And Control Circuitry, and Associate Methods | 11/877,625 | 10/23/2007 | 10/12/2010 |
| 8,021,905 | Machine and Process for Sequential Multi-Sublayer Deposition of Copper Indium Gallium Diselenide Compound Semiconductors | 12/771,590 | 04/30/2010 | 09/20/2011 |
| 8,124,870 | Systems and Processes for Bifacial Collection and Tandem Junctions Using a Flexible Thin-Film Photovoltaic Device | 11/858,010 | 09/19/2007 | 02/28/2012 |
| 8,207,442 | Reinforcing Structures for Thin-Film Photovoltaic Device Substrates, and Associated Methods | 11/737,119 | 04/18/2007 | 06/26/2012 |
| 8,426,725 | Apparatus and Method for Hybrid Photovoltaic Device Having Multiple, Stacked, Heterogeneous, Semiconductor Junctions | 12/967,005 | 12/13/2010 | 04/23/2013 |
| 8,465,589 | Machine and Process for Sequential Multi-Sublayer Deposition of Copper Indium Gallium Diselenide Compound Semiconductors | 12/701,449 | 02/05/2010 | 06/18/2013 |
| D697,502 | Mobile Electronic Device Case | 29/429,489 | 08/12/2012 | 01/14/2014 |
| 8,648,253 | Machine and Process for Continuous, Sequential, Deposition of Semiconductor Solar Absorbers Having Variable Semiconductor Composition Deposited in Multiple Sublayers | 12/899,446 | 10/06/2010 | 02/11/2014 |
| 8,716,591 | Array of Monolithically Integrated Thin Film PhotoVoltaic Cells and Associated Methods | 12/143,713 | 06/20/2008 | 05/06/2014 |
| 9,147,783 | Apparatus and Method for Hybrid Photovoltaic Device Having Multiple, Stacked, Heterogeneous, Semiconductor Junctions | 13/770,693 | 02/19/2013 | 09/29/2015 |
| 9,209,322 | Multilayer Thin-Film Back Contact System For Flexible Photovoltaic Devices On Polymer Substrates | 14/210,209 | 03/13/2014 | 12/08/2015 |
| 9,219,179 | Multilayer Thin-Film Back Contact System For Flexible Photovoltaic Devices On Polymer Substrates | 14/198,209 | 03/05/2014 | 12/22/2015 |
| 9,349,905 | Hybrid Multi-Junction Photovoltaic Cells And Associated Methods | 14/100,960 | 12/09/2013 | 05/24/2016 |

International Patents (Design & Utility)

| Country | Patent No | Title/Mark | Application No | Application Date | Grant/Reg Date |
|---------|-------------------------------|--|-------------------------------|------------------|----------------|
| CN | ZL201330040305.1 | Mobile Electronic Device Case | 201330040305.1 | 02/17/2013 | 01/01/2014 |
| CN | ZL201390000979.1 | System For Housing And Powering A Battery-Operated Device And Associated Methods | 201390000979.1 | 04/02/2013 | 10/07/2015 |
| CN | ZL 201530237203.8 | Photovoltaic-Based Fully Integrated Portable Power System | 201530237203.8 | 07/06/2015 | 02/10/2016 |
| ECD | 002180353-0001 | Mobile Electronic Device Case | 002180353-0001 | 02/12/2013 | 02/12/2013 |
| ECD | 002180353-0002 | Mobile Electronic Device Case | 002183053-0002 | 02/12/2013 | 02/12/2013 |
| ECD | 002180353-0003 | Mobile Electronic Device Case | 002183053-0003 | 02/12/2013 | 02/12/2013 |
| ECD | 001429773-0001-001429773-0007 | Mobile Handheld Electronic Device Case | 001429773 | 02/06/2015 | 02/06/2015 |
| ECD | 002732123-0001-002732123-0003 | Portable Battery Charging Device | 002732123-0001-002732123-0003 | 07/07/2015 | 07/07/2015 |
| ECD | 002735159-0001-002735159-0004 | Portable Energy Storage And Distribution Device | 002735159-0001-002735159-0004 | 07/10/2015 | 07/10/2015 |
| KR | 30-0727960 | Mobile Electronic Device Case | 3020130007365 | 02/12/2013 | 01/28/2014 |
| KR | 10-1561453 | Apparatus and Method for Hybrid Photovoltaic Device Having Multiple, Stacked, Heterogeneous, Semiconductor Junctions | 10-2013-7018533 | 12/13/2011 | 10/13/2015 |
| KR | 30-0860220 | Photovoltaic-Based Fully Integrated Portable Equipment For Control of Electric Power | 30-2015-0033874 | 07/06/2015 | 06/16/2016 |
| TW | I526630 | Subtractive Hinge and Associated Methods | 102107528 | 03/04/2013 | 03/21/2016 |
| TW | I526630 | Photovoltaic Assembly and Associated Methods | 102135093 | 09/27/2013 | 06/01/2016 |

US Patents Pending (Applications)

| Title/Mark | Application No | Application Date |
|--|----------------|------------------|
| Flexible Photovoltaic Array with Integrated Wiring and Control Circuitry, and Associated Methods | 12/901,963 | 10/11/2010 |
| Subtractive Hinge and Associated Methods | 13/783,336 | 03/03/2013 |

| | | |
|---|------------|------------|
| Machine And Process For Continuous, Sequential, Deposition Of Semiconductor Solar Absorbers Having Variable Semiconductor Composition Deposited In Multiple Sublayers | 13/794,009 | 03/11/2013 |
| Machine And Process For Continuous, Sequential, Deposition Of Semiconductor Solar Absorbers Having Variable Semiconductor Composition Deposited In Multiple Sublayers | 13/793,975 | 03/11/2013 |
| System For Housing And Powering A Battery-Operated Device And Associated Methods | 13/802,713 | 03/14/2013 |
| System For Housing And Powering A Battery-Operated Device And Associated Methods | 13/802,719 | 03/14/2013 |
| Photovoltaic Assembly and Associated Methods | 14/038,096 | 09/26/2013 |
| Flexible High-Voltage Adaptable Current Photovoltaic Modules and Associated Methods | 14/041,886 | 09/30/2013 |
| Systems And Methods For Thermally Managing High-Temperature Processes On Temperature Sensitive Substrates | 14/150,376 | 01/08/2014 |
| Array Of Monolithically Integrated Thin Film Photovoltaic Cells And Associated Methods | 14/252,485 | 04/14/2014 |
| Photovoltaic-Based Fully Integrated Portable Power System | 29/513,646 | 01/04/2015 |
| Portable Energy Storage And Distribution Device | 29/514,490 | 01/13/2015 |
| Portable Energy Storage And Distribution Device | 29/514,484 | 01/13/2015 |
| Mobile Handheld Electronic Device Case | 29/516,899 | 02/06/2015 |
| Mobile Handheld Electronic Device Case | 29/516,900 | 02/06/2015 |
| Photovoltaic-Based Fully Integrated Portable Power Management And Networking System | 62/142,795 | 04/03/2015 |
| Portable Battery Charging Device | 29/532,451 | 07/07/2015 |
| Multilayer Thin-Film Back Contact System For Flexible Photovoltaic Devices On Polymer Substrates | 14/932,933 | 11/04/2015 |
| Photovoltaic-Based Fully Integrated Portable Power Systems | 14/987,214 | 01/04/2016 |
| Pocket-Sized Photovoltaic-Based Fully Integrated Portable Power System | 29/550,427 | 01/04/2016 |
| Photovoltaic-Based Integrated Power Systems For Airborne Vehicles | 62/275,053 | 01/05/2016 |
| Photovoltaic-Based Fully Integrated Portable Power Management And Networking System | 15/089,028 | 04/01/2016 |
| Systems and Processes for Bifacial Collection and Tandem Junctions Using a Thin-Film Photovoltaic Device | 15/099,835 | 04/15/2016 |
| Hybrid Multi-Junction Photovoltaic Cells And Associated Methods | 15/137,696 | 04/25/2016 |

**SCHEDULE 3
to
INTELLECTUAL PROPERTY SECURITY AGREEMENT**

Copyright Collateral

SCHEDULE 3
to
INTELLECTUAL PROPERTY SECURITY AGREEMENT

Copyright Collateral

Domain Names

[_____] . [__]

Copyrights

[_____]