

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM569134

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Tigo Energy, Inc.		03/26/2020	Corporation: DELAWARE
RECEIVING PARTY DATA			
Name:	Newlight Capital, LLC		
Street Address:	525 Middlefield Road, Suite 250		
Internal Address:	Attn: Kerry Smith		
City:	Menlo Park		
State/Country:	CALIFORNIA		
Postal Code:	94045		
Entity Type:	Limited Liability Company: NORTH CAROLINA		
Name:	UMB Bank, National Association, as Trustee		
Street Address:	100 William Street, Suite 1850		
Internal Address:	Attn: Julius R. Zamora		
City:	New York		
State/Country:	NEW YORK		
Postal Code:	10038		
Entity Type:	National Banking Association: NEW YORK		
PROPERTY NUMBERS Total: 4			
Property Type	Number	Word Mark	
Registration Number:	3773090	TIGO	
Registration Number:	3845975	TIGO ENERGY	
Registration Number:	3773091	TIGO	
Registration Number:	3838677	TIGO ENERGY	
CORRESPONDENCE DATA			
Fax Number:	3102843894		
<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:	424-284-3744		
Email:	susan.yates@btlaw.com		
Correspondent Name:	Susan Yates		
Address Line 1:	2029 Century Park East		
TRADEMARK			

OP \$115.00 3773090

Address Line 2: Suite 300
Address Line 4: LosAngeles, CALIFORNIA 90067

NAME OF SUBMITTER: Susan Yates

SIGNATURE: /Susan Yates/

DATE SIGNED: 03/26/2020

Total Attachments: 13

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This **INTELLECTUAL PROPERTY SECURITY AGREEMENT**, dated as of March 26, 2020 (the "**Agreement**") between **NEWLIGHT CAPITAL, LLC**, a North Carolina limited liability company, as servicer ("**Servicer**"), for its own account and for the benefit of **UMB BANK, NATIONAL ASSOCIATION**, as Trustee, solely in its capacity as disbursing agent ("**Disbursing Agent**"), and TIGO ENERGY, INC., a Delaware corporation ("**Grantor**"), is made with reference to the Proceeds Disbursing and Security Agreement, dated as of March 26, 2020 (as amended from time to time, the "**Disbursing Agreement**"), among Disbursing Agent, Servicer and Grantor. Terms defined in the Disbursing Agreement have the same meaning when used in this Agreement.

For good and valuable consideration, receipt of which is hereby acknowledged, Grantor hereby covenants and agrees as follows:

To secure the Obligations under the Disbursing Agreement, Grantor grants to Servicer, for its own account and for the benefit of Disbursing Agent, a security interest in all right, title, and interest of Grantor in any of the following, whether now existing or hereafter acquired or created in any and all of the following property (collectively, the "**Intellectual Property Collateral**"):

(a) copyright rights, copyright applications, copyright registrations and like protections in each work or authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held (collectively, the "**Copyrights**"), including the Copyrights described in **Exhibit A**;

(b) trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Borrower connected with and symbolized by such trademarks (collectively, the "**Trademarks**"), including the Trademarks described in **Exhibit B**;

(c) patents, patent applications and like protections including without limitation improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same (collectively, the "**Patents**"), including the Patents described in **Exhibit C**;

(d) mask work or similar rights available for the protection of semiconductor chips or other products (collectively, the "**Mask Works**");

(e) trade secrets, and any and all intellectual property rights in computer software and computer software products;

(f) design rights;

(g) claims for damages by way of past, present and future infringement of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) 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;

(i) amendments, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

(j) proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

The rights and remedies of Servicer or Disbursing Agent with respect to the security interests granted hereunder are in addition to those set forth in the Disbursing Agreement, and those which are now or hereafter

available to Servicer or Disbursing Agent as a matter of law or equity. Each right, power and remedy of Servicer or Disbursing Agent provided for herein or in the Disbursing Agreement, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein, and the exercise by Servicer or Disbursing Agent of any one or more of such rights, powers or remedies does not preclude the simultaneous or later exercise by Servicer or Disbursing Agent of any other rights, powers or remedies.

[SIGNATURE PAGE FOLLOWS]

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

GRANTOR:

TIGO ENERGY, a Delaware corporation

DocuSigned by:
By: *Zvi Alon*
3886BA70B87D4DF...
Name: Zvi Alon
Title: CEO

Address for Notices:
Attn: Danit Neeman
655 Campbell Technology Parkway
Suite 150
Campbell, CA 95008

DISBURSING AGENT:

UMB BANK, NATIONAL ASSOCIATION, AS TRUSTEE

By: _____
Name: _____
Title: _____

Address for Notices:
Attn: _____

SERVICER:

NEWLIGHT CAPITAL, LLC

By: _____
Name: _____
Title: _____

Address for Notices:
Attn: Kerry Smith
525 Middlefield Road, Suite 250
Menlo Park, CA 94045

[Signature Page to Intellectual Property Security Agreement]

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

GRANTOR:

TIGO ENERGY, a Delaware corporation

By: _____

Name: _____

Title: _____

Address for Notices:

Attn: Danit Neeman
655 Campbell Technology Parkway
Suite 150
Campbell, CA 95008

DISBURSING AGENT:

UMB BANK, NATIONAL ASSOCIATION,
AS TRUSTEE

By:  _____

Name: Julius R. Zamora

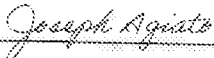
Title: Vice President

Address for Notices:

Attn: Julius R. Zamora
100 William Street, Suite 1850
New York, NY 10038

SERVICER:

NEWLIGHT CAPITAL, LLC

By:  _____

Name: Joe Agiata

Title: Managing Member

Address for Notices:

Attn: Kerry Smith
525 Middlefield Road, Suite 250
Menlo Park, CA 94045

{Signature Page to Intellectual Property Security Agreement}

EXHIBIT A
COPYRIGHTS

Please Check if No Copyrights Exist

<u>Type Of Work:</u>	<u>Title:</u>	<u>International Standard Serial Number (ISSN):</u>	<u>Registration Number:</u>	<u>Filing Date:</u>	<u>Preregistered?</u>

EXHIBIT B
TRADEMARKS

Please Check if No Trademarks Exist

<u>Mark / Title:</u>	<u>U.S. Serial Number:</u>	<u>U.S. Registration Number:</u>	<u>USPTO Reference Number:</u>	<u>Filing Date:</u>
TIGO ENERGY	77/659,595	3,773,090	3,773,090	Jan. 29, 2009
TIGO ENERGY	77/659,613	3,845,975	3,845,975	Jan. 29, 2009
TIGO ENERGY (AND DESIGN)	77/659,634	3,773,091	3,773,091	Jan. 29, 2009
TIGO ENERGY (AND DESIGN)	77/659,647	3,838,677	3,838,677	Jan. 29, 2009

EXHIBIT C**PATENTS**Please Check if No Patents Exist

Filed Date	Application No.	Title	Status	Grant Date
7/12/2005	2005262278	A DEVICE FOR DISTRIBUTED MAXIMUM POWER TRACKING FOR SOLAR ARRAYS	Granted	1/19/2006
7/12/2005	11/571,603	DEVICE FOR DISTRIBUTED MAXIMUM POWER TRACKING FOR SOLAR ARRAYS	Granted	11/3/2010
10/19/2007	11/875,799	METHOD AND SYSTEM TO PROVIDE A DISTRIBUTED LOCAL ENERGY PRODUCTION SYSTEM WITH HIGH-VOLTAGE DC BUS	Granted	6/10/2014
8/29/2008	12/202,110	STEP-UP CONVERTER SYSTEMS AND METHODS	Granted	1/17/2012
10/17/2008	12/253,868	METHOD AND SYSTEM FOR CONNECTING SOLAR CELLS OR SLICES IN A PANEL SYSTEM	Granted	12/22/2015
10/20/2008	12/254,780	APPARATUSES AND METHODS TO REDUCE SAFETY RISKS ASSOCIATED WITH PHOTOVOLTAIC SYSTEMS	Granted	2/8/2011
10/29/2008	12/260,720	APPARATUSES AND METHODS TO CONNECT POWER SOURCES TO AN ELECTRIC POWER SYSTEM	Granted	3/1/2011
10/30/2008	200880114564.0	APPARATUSES AND METHODS TO REDUCE SAFETY RISKS ASSOCIATED WITH PHOTOVOLTAIC SYSTEMS	Granted	7/10/2013
10/30/2008	08845104.2	APPARATUSES AND METHODS TO REDUCE SAFETY RISKS ASSOCIATED WITH PHOTOVOLTAIC SYSTEMS	Published	
11/10/2008	200880114659.2	METHOD AND SYSTEM FOR CONNECTING SOLAR CELLS OR SLICES IN A PANEL SYSTEM	Granted	4/3/2013
11/10/2008	08850862.7	METHOD AND SYSTEM FOR CONNECTING SOLAR CELLS OR SLICES IN A PANEL SYSTEM	Published	
12/19/2008	12/340,540	SYSTEMS TO CONNECT MULTIPLE DIRECT CURRENT ENERGY SOURCES TO AN ALTERNATING CURRENT SYSTEM TO AN ALTERNATING CURRENT SYSTEM	Granted	11/15/2011
2/5/2009	12/366,597	APPARATUSES AND METHODS TO REDUCE SAFETY RISKS ASSOCIATED WITH PHOTOVOLTAIC SYSTEMS	Granted	10/5/2010

3/25/2009	12/411,317	SYSTEMS AND METHODS TO BALANCE SOLAR PANELS IN A MULTI-PANEL SYSTEM	Granted	10/13/2009
3/25/2009	90/010,892	SYSTEMS AND METHODS TO BALANCE SOLAR PANELS IN A MULTI-PANEL SYSTEM	Granted	5/31/2011
5/15/2009	12/467,117	METHOD AND SYSTEM FOR CURRENT-MODE POWER LINE COMMUNICATIONS	Granted	2/18/2014
5/15/2009	12/467,116	METHOD AND SYSTEM FOR COST-EFFECTIVE POWER LINE COMMUNICATIONS FOR SENSOR DATA COLLECTION	Granted	12/4/2012
6/18/2009	200980100766.4	SYSTEMS AND METHODS TO BALANCE SOLAR PANELS IN A MULTI-PANEL SYSTEM	Granted	3/13/2013
6/18/2009	2011-537441	SYSTEMS AND METHODS TO BALANCE SOLAR PANELS IN A MULTI-PANEL SYSTEM	Granted	12/13/2013
7/21/2009	12/506,929	SYSTEMS AND METHODS FOR USING A POWER CONVERTER FOR TRANSMISSION OF DATA OVER THE POWER FEED	Granted	10/14/2014
8/17/2009	12/542,632	SYSTEM AND METHOD FOR PREVENTION OF OPEN LOOP DAMAGE DURING OR IMMEDIATELY AFTER MANUFACTURING	Granted	10/18/2011
9/18/2009	12/562,933	SYSTEMS AND METHOD FOR LIMITING MAXIMUM VOLTAGE IN SOLAR PHOTOVOLTAIC POWER GENERATION SYSTEMS	Granted	1/24/2012
9/18/2009	12/562,491	SYSTEMS AND METHODS FOR DISTRIBUTED POWER FACTOR CORRECTION AND PHASE BALANCING	Granted	2/10/2015
9/25/2009	12/567,169	SYSTEMS AND METHODS TO BALANCE SOLAR PANELS IN A MULTI-PANEL SYSTEM	Granted	10/14/2014
10/12/2009	12/577,698	ENHANCED BATTERY STORAGE AND RECOVERY ENERGY SYSTEMS	Granted	3/26/2013
11/4/2009	12/612,641	ENHANCED SYSTEMS AND METHODS FOR USING A POWER CONVERTER FOR BALANCING MODULES IN SINGLE-STRING AND MULTI-STRING CONFIGURATIONS	Granted	7/26/2016
12/1/2009	12/628,977	SYSTEMS AND METHODS FOR AN ENHANCED WATCHDOG IN SOLAR MODULE INSTALLATIONS	Granted	1/13/2015
12/1/2009	12/628,997	NOVEL SYSTEM AND METHOD FOR ADDRESSING SOLAR ENERGY PRODUCTION CAPACITY LOSS DUE TO FIELD BUILDUP BETWEEN CELLS AND GLASS AND FRAME ASSEMBLY	Granted	4/12/2016
1/21/2010	12/691,692	SYSTEM AND METHOD FOR LOCAL STRING MANAGEMENT UNIT	Granted	11/20/2012

3/15/2010	12/724,371	SYSTEMS AND METHODS TO PROVIDE ENHANCED DIODE BYPASS PATHS	Granted	4/26/2016
5/25/2010	12/787,205	SYSTEM AND METHOD FOR ENHANCED EFFICIENCY AUXILIARY POWER SUPPLY MODULE	Granted	9/22/2015
7/20/2010	12/840,228	SYSTEMS AND METHODS FOR DETECTING AND CORRECTING A SUBOPTIMAL OPERATION OF ONE OR MORE INVERTERS IN A MULTI-INVERTER SYSTEM	Granted	12/30/2014
9/30/2010	12/895,745	SYSTEMS AND METHODS FOR A COMMUNICATION PROTOCOL BETWEEN A LOCAL CONTROLLER AND A MASTER CONTROLLER	Granted	7/8/2014
10/14/2010	12/904,919	SYSTEMS AND METHODS FOR MAPPING THE CONNECTIVITY TOPOLOGY OF LOCAL MANAGEMENT UNITS IN PHOTOVOLTAIC ARRAYS	Granted	4/12/2016
11/17/2010	12/948,614	APPARATUSES AND METHODS TO REDUCE SAFETY RISKS ASSOCIATED WITH PHOTOVOLTAIC SYSTEMS	Published	
11/23/2010	12/953,337	DEVICE FOR DISTRIBUTED MAXIMUM POWER TRACKING FOR SOLAR ARRAYS	Granted	1/10/2012
1/6/2011	12/985,883	SYSTEM AND METHOD FOR THEFT PREVENTION AND SECURE CERTIFICATE EXCHANGE	Granted	9/18/2012
3/28/2011	13/073,915	SYSTEMS AND METHODS FOR REMOTE OR LOCAL SHUT-OFF OF A PHOTOVOLTAIC SYSTEM	Granted	10/7/2014
3/29/2011	13/075,093	SYSTEM AND METHOD FOR ARC DETECTION AND INTERVENTION IN LARGE SOLAR ENERGY SYSTEMS	Granted	5/26/2015
4/21/2011	13/092,099	ENHANCED SYSTEM AND METHOD FOR THEFT PREVENTION IN A SOLAR POWER ARRAY DURING NONOPERATIVE PERIODS	Granted	4/14/2015
4/22/2011	11772811.3	SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	Granted	5/22/2019
4/22/2011	11772811.3	SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	Granted	5/22/2019
4/22/2011	11772811.3	SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	Granted	5/22/2019
4/22/2011	11772811.3	SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	Granted	5/22/2019
4/22/2011	11772811.3	SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	Granted	5/22/2019

4/22/2011	11772811.3	SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	Granted	5/22/2019
4/22/2011	13/092,783	SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	Granted	9/2/2014
5/31/2011	13/149,163	SYSTEM FOR USE OF STATIC INVERTERS IN VARIABLE ENERGY GENERATION ENVIRONMENTS	Granted	10/7/2014
5/31/2011	13/149,172	METHOD FOR USE OF STATIC INVERTERS IN VARIABLE ENERGY GENERATION ENVIRONMENTS	Granted	12/29/2015
6/9/2011	13/157,016	SYSTEMS AND METHODS TO OPTIMIZE OUTPUTS OF STATIC INVERTERS IN VARIABLE ENERGY GENERATION ENVIRONMENTS	Granted	2/17/2015
9/14/2011	13/232,887	SYSTEM AND METHOD FOR PREVENTION OF OPEN LOOP DAMAGE DURING OR IMMEDIATELY AFTER MANUFACTURING	Granted	4/9/2013
9/16/2011	13/235,064	SYSTEMS AND METHODS TO PROVIDE ENHANCED DIODE BYPASS PATHS	Granted	8/23/2016
11/1/2011	13/287,021	SYSTEM AND METHOD FOR FLASH BYPASS	Granted	9/23/2014
12/9/2011	13/316,388	DEVICE FOR DISTRIBUTED MAXIMUM POWER TRACKING FOR SOLAR ARRAYS	Granted	2/24/2015
12/9/2011	14/620,805	DEVICE FOR DISTRIBUTED MAXIMUM POWER TRACKING FOR SOLAR ARRAYS	Granted	3/14/2017
12/20/2011	13/332,299	SYSTEM AND METHOD TO COMBINE STRINGS OF SOLAR PANELS	Granted	9/22/2015
1/9/2012	13/346,482	SYSTEM AND METHOD TO REDUCE THE NUMBER AND COST OF MANAGEMENT UNITS OF DISTRIBUTED POWER GENERATORS	Granted	8/30/2016
1/24/2012	13/357,331	SYSTEMS AND METHOD FOR LIMITING MAXIMUM VOLTAGE IN SOLAR PHOTOVOLTAIC POWER GENERATION SYSTEMS	Granted	9/25/2012
3/1/2012	13/410,175	SYSTEM AND METHOD FOR EXCHANGEABLE CAPACITOR MODULES FOR HIGH-POWER INVERTERS AND CONVERTERS	Granted	3/17/2015
3/12/2012	13/418,279	ENHANCED SYSTEM AND METHOD FOR STRING-BALANCING	Granted	6/14/2016
4/30/2012	13/460,545	SYSTEMS AND METHODS FOR AN IDENTIFICATION PROTOCOL BETWEEN A LOCAL CONTROLLER COUPLED TO CONTROL A SOLAR MODULE AND A MASTER CONTROLLER	Granted	9/1/2015
9/26/2012	13/627,852	SYSTEM AND METHOD FOR LOCAL STRING MANAGEMENT UNIT	Granted	4/1/2014

2/1/2013	13/757,616	ENHANCED SYSTEM AND METHOD FOR MATRIX PANEL TIES FOR LARGE INSTALLATIONS	Published	
2/27/2013	13/779,456	ANTI-THEFT SYSTEM AND METHOD FOR LARGE SOLAR PANEL SYSTEMS	Granted	4/7/2015
4/23/2014	14/260,183	SYSTEM AND METHOD FOR LOW-COST, HIGH-EFFICIENCY SOLAR PANEL POWER FEED	Granted	1/10/2017
8/29/2014	14/473,659	SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	Granted	7/19/2016
10/1/2014	14/503,723	SYSTEMS AND METHODS FOR REMOTE OR LOCAL SHUT-OFF OF A PHOTOVOLTAIC SYSTEM	Granted	6/28/2016
10/13/2014	14/512,786	SYSTEMS AND METHODS TO BALANCE SOLAR PANELS IN A MULTI-PANEL SYSTEM	Granted	10/23/2018
12/16/2014	14/572,458	SYSTEMS AND METHODS FOR AN ENHANCED WATCHDOG IN SOLAR MODULE INSTALLATIONS	Granted	6/4/2019
5/21/2015	14/718,426	SYSTEM AND METHOD FOR ARC DETECTION AND INTERVENTION IN LARGE SOLAR ENERGY SYSTEMS	Granted	3/27/2018
8/4/2015	14/817,949	IDENTIFICATION PROTOCOL BETWEEN A LOCAL CONTROLLER OF A SOLAR MODULE AND A MASTER CONTROLLER	Granted	11/20/2018
8/10/2015	14/822,227	SYSTEMS AND METHODS FOR ENHANCED EFFICIENCY AUXILIARY POWER SUPPLY MODULE	Granted	2/28/2017
8/14/2015	14/827,023	SYSTEMS AND METHODS TO COMBINE STRINGS OF SOLAR PANELS	Granted	12/19/2017
12/2/2015	14/957,503	SOLAR PANEL JUNCTION BOXES HAVING INTEGRATED FUNCTION MODULES	Granted	2/26/2019
12/9/2015	14/964,342	METHOD AND SYSTEM FOR CONNECTING SOLAR CELLS OR SLICES IN A PANEL SYSTEM	Published	
12/9/2015	14/964,388	METHOD FOR USE OF STATIC INVERTERS IN VARIABLE ENERGY GENERATION ENVIRONMENTS	Granted	9/20/2016
3/1/2016	15/057,955	SYSTEMS AND METHODS TO REDUCE FIELD BUILDUP BETWEEN CELLS AND GLASS AND FRAME ASSEMBLY FOR SOLAR ENERGY PRODUCTION	Granted	6/5/2018
4/5/2016	15/090,939	SYSTEMS AND METHODS FOR MAPPING THE CONNECTIVITY TOPOLOGY OF LOCAL MANAGEMENT UNITS IN PHOTOVOLTAIC ARRAYS	Granted	7/16/2019
4/13/2016	15/098,075	SYSTEMS AND METHODS TO PROVIDE ENHANCED DIODE BYPASS PATHS	Granted	11/13/2018

5/19/2016	15/159,699	SYSTEMS AND METHODS FOR QUICK DISSIPATION OF STORED ENERGY FROM INPUT CAPACITORS OF POWER INVERTERS	Granted	4/7/2020
5/20/2016	201680029553.7	SYSTEMS AND METHODS FOR QUICK DISSIPATION OF STORED ENERGY FROM INPUT CAPACITORS OF POWER INVERTERS	Published	
6/3/2016	15/172,996	ENHANCED SYSTEM AND METHOD FOR STRING BALANCING	Allowed	
6/17/2016	15/186,330	SYSTEMS AND METHODS FOR REMOTE OR LOCAL SHUT-OFF OF A PHOTOVOLTAIC SYSTEM	Granted	8/28/2018
7/6/2016	15/203,595	ENHANCED SYSTEMS AND METHODS FOR USING A POWER CONVERTER FOR BALANCING MODULES IN SINGLE-STRING AND MULTI-STRING CONFIGURATIONS	Published	
7/6/2016	15/203,713	SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	Granted	11/7/2017
8/1/2016	15/225,692	SYSTEM AND METHOD TO REDUCE THE NUMBER AND COST OF MANAGEMENT UNITS OF DISTRIBUTED POWER GENERATORS	Granted	6/4/2019
8/22/2016	15/243,493	SYSTEMS AND METHODS TO PROVIDE ENHANCED DIODE BYPASS PATHS	Granted	10/29/2019
9/20/2016	15/270,997	METHOD FOR USE OF STATIC INVERTERS IN VARIABLE ENERGY GENERATION ENVIRONMENTS	Granted	1/30/2018
11/30/2016	15/365,753	SYSTEM AND METHOD FOR LOW-COST, HIGH-EFFICIENCY SOLAR PANEL POWER FEED	Allowed	
12/28/2016	15/392,960	SYSTEM AND METHOD FOR ENHANCED EFFICIENCY AUXILIARY POWER SUPPLY MODULE	Granted	5/8/2018
6/2/2017	15/612,977	CONTACTS FOR JUNCTION BOXES ON SOLAR PANELS	Granted	6/5/2018
9/27/2017	15/717,244	SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	Granted	4/9/2019
12/18/2017	15/845,980	SYSTEMS AND METHODS TO COMBINE STRINGS OF SOLAR PANELS	Published	
1/9/2018	15/866,078	METHOD FOR USE OF STATIC INVERTERS IN VARIABLE ENERGY GENERATION ENVIRONMENTS	Granted	10/22/2019
3/23/2018	15/933,861	SYSTEM AND METHOD FOR ARC DETECTION AND INTERVENTION IN SOLAR ENERGY SYSTEMS	Published	

5/2/2018	15/969,607	SYSTEMS AND METHODS FOR ENHANCED EFFICIENCY AUXILIARY POWER SUPPLY MODULE	Granted	6/25/2019
6/1/2018	15/996,370	SYSTEMS AND METHODS TO REDUCE FIELD BUILDUP BETWEEN CELLS AND GLASS AND FRAME ASSEMBLY FOR SOLAR ENERGY PRODUCTION	Published	
6/1/2018	15/996,288	SYSTEM AND METHOD FOR NEW, ENHANCED CONTACTS FOR JUNCTION BOXES ON SOLAR PANELS	Granted	7/23/2019
8/6/2018	16/055,789	SYSTEMS AND METHODS FOR REMOTE OR LOCAL SHUT-OFF OF A PHOTOVOLTAIC SYSTEM	Granted	12/31/2019
10/5/2018	16/152,766	SYSTEMS AND METHODS TO PROVIDE ENHANCED DIODE BYPASS PATHS	Published	
10/16/2018	16/161,987	SYSTEMS AND METHODS TO BALANCE SOLAR PANELS IN A MULTI-PANEL SYSTEM	Granted	4/7/2020
10/16/2018	16/161,904	SYSTEMS AND METHODS FOR AN IDENTIFICATION PROTOCOL BETWEEN A LOCAL CONTROLLER OF A SOLAR MODULE AND A MASTER CONTROLLER	Published	
2/7/2019	16/270,475	SOLAR PANEL JUNCTION BOXES HAVING INTEGRATED FUNCTION MODULES	Published	
3/5/2019	16/293,514	SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	Allowed	
4/19/2019	16/389,775	SYSTEMS AND METHODS FOR AN ENHANCED WATCHDOG IN SOLAR MODULE INSTALLATIONS	Published	
12/27/2019	16/729,100	SYSTEMS AND METHODS FOR REMOTE OR LOCAL SHUT-OFF OF A PHOTOVOLTAIC SYSTEM	Application	