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TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

c Version v1.1 ETAS ID: TM703590

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: SECURITY INTEREST

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
Tigo Energy, Inc.		01/18/2022	Corporation: DELAWARE

RECEIVING PARTY DATA

Name:	Newlight Capital LLC
Street Address:	525 Middlefield Road, Suite 250
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
City:	New York
State/Country:	NEW YORK
Postal Code:	10038
Entity Type:	Association: UNITED STATES

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: 4154421001

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: 4154421674

Email: thomas.loran@morganlewis.com

Correspondent Name: Thomas V. Loran

Address Line 1:One Market, Spear Street TowerAddress Line 2:Morgan, Lewis & Bockius LLPAddress Line 4:San Francisco, CALIFORNIA 94105

TRADEMARK
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ATTORNEY DOCKET NUMBER:	129136-0013
NAME OF SUBMITTER:	Thomas Loran
SIGNATURE:	/Thomas Loran/
DATE SIGNED:	01/20/2022
Total Attachments: 16	
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SHORT FORM INTELLECTUAL PROPERTY SECURITY AGREEMENT

This SHORT FORM INTELLECTUAL PROPERTY SECURITY AGREEMENT (the "Short Form Agreement") is made by TIGO ENERGY, INC., a Delaware corporation ("Grantor"), and dated as of January 18, 2022, in favor of NEWLIGHT CAPITAL LLC, a North Carolina limited liability company, as servicer ("Servicer"), (i) for itself and for the benefit of UMB BANK, NATIONAL ASSOCIATION, as Trustee, solely in its capacity as disbursing agent ("Disbursing Agent") and the Insurer, and (ii) as collateral agent for the benefit of the Trustee under the Trust Indenture.

WITNESSETH:

WHEREAS, the Grantor and Servicer entered into an Intellectual Property Security Agreement dated as of January 18, 2022 (as amended, restated, modified or supplemented from time to time, the "<u>Intellectual Property Security Agreement</u>"), and this Short Form Agreement is a supplement to the Intellectual Property Security Agreement; and

WHEREAS, this Short Form Agreement is executed for the purpose of filing a short form intellectual property security agreement with the United States Patent and Trademark Office (the "<u>USPTO</u>") and the United States Copyright Office (the "<u>USCO</u>"), which sets forth the Grantor's pledge of its intellectual property as a first priority security interest for certain indebtedness and other obligations of Grantor;

NOW, THEREFORE, in consideration of the premises, and for other good and valuable consideration as set forth in the Intellectual Property Security Agreement, the receipt and sufficiency of which are hereby acknowledged, the Grantor and Servicer hereby agree as follows:

1. GRANT OF SECURITY INTEREST.

Grantor hereby pledges, assigns and grants to Servicer (and its successors and assigns), (x)(i) for the benefit of the Servicer, (ii) as representative and for the benefit of the Insurer and (iii) as representative and for the benefit of Disbursing Agent, in order to secure prompt repayment and performance of any and all Obligations and in order to secure prompt performance by Grantor and each other Co-Obligor of each of their agreements, covenants and duties under the Disbursement Documents, and (y) as collateral agent for the benefit of the Trustee under the Trust Indenture in order to secure prompt repayment of any and all obligations of Grantor and each other Co-Obligor under the Trust Transaction Documents and in order to secure prompt performance by Grantor and each other Co-Obligor of each of their agreements, covenants and duties under the Trust Transaction Documents, a continuing security interest in and a lien upon, and a collateral assignment of, all of the following (being collectively referred to herein as the "IP Collateral):

a. all of its now existing or hereafter acquired right, title and interest in and to all patents, trademarks, copyrights, inventions, invention disclosures and improvements, and all applications, registrations and recordings relating to the foregoing, and any reissues, divisions, continuations, continuations-in-part, renewals, extensions, and/or reexaminations of any of the foregoing, as may at any time be filed in the USPTO or in any similar office or agency of the United States, any State thereof, any political subdivision thereof, or in any other country, including, without limitation, those set forth on Schedule A; provided, however, such security interest shall not extend to any "intent-to-use" trademark application filed pursuant to Section 1(b) of the Lanham

DB1/126493070.5Act, 15 U.S.C. § 1051, prior to the filing of a "Statement of Use" pursuant to Section

- 1(d) of the Lanham Act or an "Amendment to Allege Use" pursuant to Section 1(c) of the Lanham Act with respect thereto, to the extent that, and solely during the period, if any, in which, the grant of a security interest therein would impair the validity or enforceability of any registration that issues from such intent-to-use application under applicable federal law (it being understood that after such period such intent-to-use application shall be automatically subject to the security interest granted herein);
- b. all rights of any kind whatsoever accruing under any of the foregoing throughout the world, including, without limitation, all rights under and interests in any and all patent, copyright or trademark licenses, whether written or oral, with any other party, and whether Grantor is a licensee or licensor under any such license (all of the foregoing are referred to, collectively, as the "Licenses");
- c. all income, fees, royalties and other payments at any time due or payable with respect thereto, including, without limitation payments under any and all Licenses at any time entered into in connection therewith; and
- d. any and all claims and/or causes of actions with respect to any of the foregoing, whether occurring before, on, or after the date hereof, including without limitation all rights to and claims for damages, restitution and injunctive and other legal and equitable relief for past, present, and/or future infringement, violation, misuse, breach, or default, with the right but not the obligation to sue for such legal and equitable relief and to collect, or otherwise recover, any such damages.

2. MISCELLANEOUS

- a. To the extent that Grantor creates or acquires any items of the type described in Section 1 after the date hereof, the same shall immediately constitute IP Collateral for purposes hereof from and after the date of such creation or acquisition and shall immediately be subject to the security interest and assignment set forth herein. Grantor shall give to Servicer written notice of any such creation or acquisition (that is not Excluded Property) within 15 days thereof. Upon the request of Servicer, Grantor shall promptly execute any and all assignments, agreements, instruments, documents and other papers as may be reasonably requested by Servicer to evidence and/or perfect the security interest in and collateral assignment of such items in favor of Servicer, including, without limitation, in Servicer's discretion, a modification, amendment or supplement hereof or a new short form intellectual property security agreement with respect thereto.
- b. Grantor authorizes the Commissioner for Patents, the Commissioner for Trademarks, Commissioner of Copyrights and any other government officials to record this Short Form Agreement upon request of Servicer.
- c. This Short Form Agreement has been entered into pursuant to, and in conjunction with, the Intellectual Property Security Agreement, and the terms and provisions thereof are incorporated by reference herein. The rights and remedies of Servicer with respect to the security interests described herein are as provided by the Intellectual Property Security Agreement and nothing in this Short Form Agreement shall be deemed to limit such rights and remedies.

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- d. This Short Form Agreement is binding on and shall inure to the benefit of the parties hereto, and their respective successors and assigns.
- e. All capitalized terms not expressly defined herein shall have the definitions ascribed to them in the Intellectual Property Security Agreement and the Disbursing Agreement (as defined in the Intellectual Property Security Agreement) and are incorporated herein by reference. If there is a conflict between the definitions, terms, and/or provisions of this Short Form Agreement and the Intellectual Property Security Agreement, the definitions, terms, and/or provisions of the Intellectual Property Security Agreement shall control.
- f. This Short Form Agreement may be executed in any number of counterparts and by different parties on separate counterparts, each of which, when executed and delivered, shall be deemed to be an original, and all of which, when taken together, shall constitute but one and the same agreement. Delivery of an executed signature page or counterpart (or electronic image or scan transmission (such as a "pdf" file) thereof), whether by facsimile transmission, email, similar form of electronic transmission or otherwise (and whether executed manually, electronically or digitally), shall be effective as delivery of a manually executed counterpart of this Short Form Agreement and shall create a valid and binding obligation of the party executing the same or on whose behalf such signature page or counterpart is executed.
- g. THIS SHORT FORM AGREEMENT SHALL BE GOVERNED BY NEW YORK LAW, WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAW THAT WOULD RESULT IN THE APPLICATION OF THE LAW OF A STATE OTHER THAN NEW YORK.

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IN WITNESS WHEREOF, the undersigned have duly executed this Short Form Agreement as of the date first above written.

TIGO ENERGY, INC., as Grantor

By:

Name: Zvi Alon

Title: Chief Executive Officer

[Signature Page to Short Form IP Agreement]

ACCEPTED AND AGREED:

NEWLIGHT CAPITAL LLC, as Servicer

Revin Wallace

By:

Name: Kevin Wallace Title: Vice President

[Signature Page to Short Form IP Agreement]

SCHEDULE A TO

SHORT FORM INTELLECTUAL PROPERTY SECURITY AGREEMENT

(See attached)

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		nc.	Tigo Energy, Inc	īgo En	1	57	8/18/2020 10,749,457	0 10,7	1/2020	8/18	74	16/161,904		10/16/2018	0/16,		ā	Granted	ഒ	es of	State	United States of America		SYSTEMS AND METHODS FOR AN IDENTIFICATION PROTOCOL BETWEEN A LOCAL CONTROLLER OF A SOLAR MODULE AND A MASTER CONTROLLER	SYSTEMS AND METHODS FOR AN IDENTIFICATION PROTOCOL BETWE A LOCAL CONTROLLER OF A SOLAR MODULE AND A MASTER CONTROLL	7 OF CO	STE OF OR	A C R II	\$ 2 5 5 \$ 2 5 5 \$ 5 5 \$	E P P S	STE STE STE	N A E SY
	TR	nc. 1c.	Tigo Energy, Inc	igo En		35	9/1/2015 9,124,139	5 9,12	/2018	9/1	 19 \$5	13/460,545	***************************************	4/30/2012 4/30/2012 8/4/2015	4/30,		Č Č	Granted Granted	റ ര	ss of	State State	SYSTEMS AND METHODS FOR AN United States of IDENTIFICATION PROTOCOL BETWEEN America A LOCAL CONTROLLER COUPLED TO CONTROL A SOLAR MODUEL AND A MASTER CONTROLLER IDENTIFICATION PROTOCOL BETWEEN United States of A LOCAL CONTROLLER OF A SOLAR America MODULE AND A MASTER CONTROLLER		SYSTEMS AND METHODS FOR AN IDENTIFICATION PROTOCOL BETWEEN A LOCAL CONTROLLER COUPLED TO CONTROL A SOLAR MODUEL AND A MASTER CONTROLLER IDENTIFICATION PROTOCOL BETWEEN A LOCAL CONTROLLER OF A SOLAR MODULE AND A MASTER CONTROLLER	SYSTEMS AND METHODS FOR AN IDENTIFICATION PROTOCOL BETWEE A LOCAL CONTROLLER COUPLED TO CONTROL A SOLAR MODUEL AND A MASTER CONTROLLER IDENTIFICATION PROTOCOL BETWEE A LOCAL CONTROLLER OF A SOLAR MODULE AND A MASTER CONTROLLER	DUEL DICOL	MOD ER MOD ER STER	NET ROLL AND LARRY NAME TO A ROLL AND LARRY NA	A GOLLY A COLLY A COLL	SYSTEMS AND METHOI IDENTIFICATION PROTO A LOCAL CONTROLLER CONTROL A SOLAR MC MASTER CONTROLLER IDENTIFICATION PROTO A LOCAL CONTROLLER MODULE AND A MASTE	STENTI STENTI STENTI STENTI	MA IDE SY
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		nc.	Tigo Energy, Inc	igo En	······	1	2/28/2017 9,584,021	7 9,58	;/2017	2/28	 27	14/822,227		8/10/2015	8/10,		ă	Granted	ര	es of	State	United States of America	> ⊂	RY	SYSTEMS AND METHODS FOR ENHANCED EFFICIENCY AUXILIARY	SYSTEMS AND METHODS FOR ENHANCED EFFICIENCY AUXIL	SYSTEMS AND METHODS ENHANCED EFFICIENCY A	MET NET NET		MS /	STE HAN	N S

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	Tiao Eneray Inc	_		1 17/526 793	11/15/2021	Application	United States of	FOR AN
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	ligo Energy, Inc.			9 16/389,775	4/19/2019	Published	United States of	SYSTEMS AND METHODS FOR AN ONIR
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			****		*****		rica	ENHANCED WATCHDOG IN SOLAR America
	Tigo Energy, Inc.	6/4/2019 10,312,857	6/4/2019	1 14/572,458	12/16/2014	Granted	United States of	
								MODULE INSTALLATIONS
							rica	ENHANCED WATCHDOG IN SOLAR America
	Tigo Energy, Inc.	8,933,321	1/13/2015 8	9 12/628,977	12/1/2009	Granted	United States of	SYSTEMS AND METHODS FOR AN Unite
		ananana na na na				******		CONFIGURATIONS
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		*********			******		rica	FOR BALANCING MODILIES IN SINCE AMERICA
	ligo Ellelgy, Ilic.	*****	0/23/2020 10,730,343	0:10/200,080	//0/2010	Giailled	America America	0
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								STRING AND MULTIFICIAING
								FOR BALANCING MODULES IN SINGLE-
							rica	FOR USING A POWER CONVERTER America
	Tigo Energy, Inc.	9,401,439	7/26/2016 9,401,439	12/612,641	11/4/2009	Granted	United States of	ဗ္ဗ
F								
RE		nenananan					rica	CORDECTION AND BLASE BALANCING AMERICA
EL	ligo ⊑nergy, Inc.	*****	2/10/2015 8,954,203	12/562,491	9/18/2009	Granted	United States of	
•	<u> </u>)	21-1-1	
								PHOTOVOLTAIC POWER GENERATION
							rica	MAXIMUM VOLIAGE IN SOLAR America
DE 63	Tigo Energy, Inc.		9/25/2012 8,274,172	2 13/357,331	1/24/2012	Granted	United States of	IMITING
		- Taranananan			*****			SYSTEMS
					*******			RATION
		2727272727272			••••	********	rica	
	Tigo Energy, Inc.	******	1/24/2012 8,102,074	12/562,933	9/18/2009	Granted	United States of	THOD FOR LIMITING
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5	Tigo Elicigy, ilio.		4/9/2015		0/14/2011	Charles	jiga W Otates of	DAMAGE
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		eta tanta tanta ta				******	rica	PREVENTION OF OPEN LOOP DAMAGE America
*****	Tigo Energy, Inc.	neterterterterter	10/18/2011 8,039,730	12/542,632	8/17/2009	Granted	United States of	

SYSTEMS AND METHODS TO REDUCE FIELD BUILDUP BETWEEN CELLS AND GLASS AND FRAME ASSEMBLY FOR SOLAR ENERGY PRODUCTION	United States of America	Granted	3/1/2016 15	15/057,955	6/5/2018 9,991,842	991,842	Tigo Energy, Inc.	
SYSTEMS AND METHODS TO REDUCE FIELD BUILDUP BETWEEN CELLS AND GLASS AND FRAME ASSEMBLY FOR SOLAR ENERGY PRODUCTION	United States of America	Allowed	6/1/2018 15	15/996,370			Tigo Energy, Inc.	
SYSTEM AND METHOD FOR LOCAL STRING MANAGEMENT UNIT SYSTEM AND METHOD FOR LOCAL STRING MANAGEMENT UNIT SYSTEMS AND METHODS TO PROVIDE ENHANCED DIODE BYPASS PATHS	United States of America United States of America United States of United States of America	Granted Granted Granted	1/21/2010 12 9/26/2012 13 3/15/2010 12	12/691,692 13/627,852 12/724,371	11/20/2012 8,314,375 4/1/2014 8,686,333 4/26/2016 9,324,885		Tigo Energy, Inc. Tigo Energy Inc. Tigo Energy, Inc.	TRADEMAR 007563 FRA :
SYSTEMS AND METHODS TO PROVIDE ENHANCED DIODE BYPASS PATHS SYSTEMS AND METHODS TO PROVIDE ENHANCED DIODE BYPASS PATHS	United States of America United States of America	Granted Granted	4/13/2016 18 10/5/2018 16	15/098,075 16/152,766	11/13/2018 10.128,683 12/14/2021 11,201,494		Tigo Energy, Inc.	REEL
SYSTEMS AND METHODS FOR DETECTING AND CORRECTING A SUBOPTIMAL OPERATION OF ONE OR MORE INVERTERS IN A MULTI- INVERTER SYSTEM SYSTEMS AND METHODS FOR MAPPING THE CONNECTIVITY TOPOLOGY OF LOCAL MANAGEMENT	United States of America United States of America	Granted 1	7/20/2010 12 10/14/2010 12	12/840,228	12/30/2014 8,922,061 4/12/2016 9,312,399	922,061 312,399	Tigo Energy, Inc.	
UNITS IN PHOTOVOLTAIC ARRAYS SYSTEMS AND METHODS FOR MAPPING THE CONNECTIVITY TOPOLOGY OF LOCAL MANAGEMENT UNITS IN PHOTOVOLTAIC ARRAYS ENHANCED SYSTEM AND METHOD FOR THEFT PREVENTION IN A SOLAR POWER ARRAY DURING	United States of America United States of America	Granted Granted	4/5/2016 15 4/21/2011 13	15/090,939 13/092,099	7/16/2019 10,355,637		Tigo Energy, Inc. Tigo Energy, Inc.	
SYSTEM AND METHOD FOR SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	European Patent Germany (Federal Republic of)	Granted Granted	4/22/2011 11 4/22/2011 11	11772811.3 11772811.3	5/22/2019 2561596 5/22/2019 6020110	59209.2	Tigo Energy, Inc. Tigo Energy, Inc.	
SYSTEM AND METHOD FOR ENHANCED WATCH DOG IN SOLAR PANEL INSTALLATIONS	Spain	Granted	4/22/2011 11	11772811.3	5/22/2019 2561596		Tigo Energy, Inc.	

SYSTEM AND METHOD FOR	France	Granted	4/22/2011	11772811.3	5/22/2019 2561596	2561596	Tiao Eneray, Inc.	
SOLAR							(*****
SYSTEM AND METHOD FOR	Italy	Granted	4/22/2011	11772811.3	5/22/2019 2561596	2561596	Tigo Energy, Inc.	
ENHANCED WATCH DOG IN SOLAR								7
PANEL INSTALLATIONS SYSTEM AND METHOD FOR	Notherlands	Content	1/22/2011	11772811 2	5/22/2010:2561506	7561506	Tigo Eporgy Inc	817
ENHANCED WATCH DOG IN SOLAR			; !		!		90	: 0
PANEL INSTALLATIONS SYSTEM AND METHOD EOB	- Instant States of	Pontad	A/20/2014	13/000 783	0/7/2017 8 823 218	8 8 8 9 9 9 9 9 8	Time Energy Inc	RK ME
ENHANCED WATCH DOG IN SOLAR		Canted	+10010011	10/004,700	02/2/0	0,000,010	Tigo Energy, mo.	
PANEL INSTALLATIONS	Allicitod							M/ FF
FOR	United States of	Granted	8/29/2014	14/473,659	7/19/2016 9,397,612	9,397,612	Tigo Energy, Inc.	
SOLAR	America						1	
PANEL INSTALLATIONS								
SYSTEM AND METHOD FOR	United States of	Granted	7/6/2016	15/203,713	11/7/2017 9813021	9813021	Tigo Energy, Inc.	
ENHANCED WATCH DOG IN SOLAR	America							ΞL
PANEL INSTALLATIONS								E
	United States of	Granted	9/27/2017	15/717,244	4/9/2019	4/9/2019 10,256,770	Tigo Energy, Inc.	R
ENHANCED WATCH DOG IN SOLAR	America	******			*****		arananan ranan	
SYSTEM AND METHOD FOR	United States of	Granted	3/5/2019	16/293.514	6/16/2020 10.686.403	10.686.403	Tigo Energy, Inc.	
ENHANCED WATCH DOG IN SOLAR	America							
PANEL INSTALLATIONS								
SYSTEM AND METHOD FOR	United States of	Allowed	6/11/2020	16/899,351			Tigo Energy, Inc.	******
ENHANCED WATCH DOG IN SOLAR	America	*****					*********	
SYSTEM FOR USE OF STATIC	United States of	Granted	5/31/2011	13/149 163	10/7/2014 8 853 886	8 853 886	Tigo Energy Inc	###
RGY	America	1			:		995,	
GENERATION ENVIRONMENTS								
METHOD FOR USE OF STATIC	United States of	Granted	5/31/2011	13/149,172	12/29/2015 9,225,261	9,225,261	Tigo Energy, Inc.	
GENERATION ENVIRONMENTS		*****						
PTIMIZE	United States of	Granted	6/9/2011	13/157,016	2/17/2015 8,957,544	8,957,544	Tigo Energy, Inc.	
	America							
VARIABLE ENERGY GENERATION								
METHOD FOR USE OF STATIC	United States of	Granted	12/9/2015	14/964.388	9/20/2016:9.450.414	9.450.414	Tiao Eneray. Inc.	
ĞΥ	America					,	(
GENERATION ENVIRONMENTS	- - - - - -) -		• 1 1 1 1 1 1)))))	1	
METHOD FOR USE OF STATIC	United States of	Granted	9/20/2016	15/2/0,99/	1/30/2018 9,882,390	9,882,390	Figo Energy, Inc.	
INVERTERS IN VARIABLE ENERGY	America							
METHOD FOR LISE OF STATIC	United States of	Granted	1/9/2018	15/866 078	10/22/2019 10 454 275	10 454 275	Tino Energy Inc	
INVERTERS IN VARIABLE ENERGY	America		; ; ;				90	
GENERATION ENVIRONMENTS								
SYSTEMS AND METHODS TO PROVIDE	United States of	Granted	9/16/2011	13/235,064	8/23/2016 9,425,783	9,425,783	Tigo Energy, Inc.	
ENHANCED DIODE BYPASS PATHS	America							

	·	Tigo Energy, Inc.	Tigo En	,543,455	1/10/2017 9,543,455	14/260,183	:····· 98888888	Granted	America United States of America	America United S EL America	FOR LARGE SOLAR PANEL SYSTEMS America SYSTEM AND METHOD FOR LOW- United S COST, HIGH-EFFICIENCY SOLAR PANEL America POWER FEED
		Tigo Energy Inc.	Higo Fi	000 919	4/7/2015 9 000 919	13/779 456	2/27/2013	Granted	America United States of	America	FOR STRING BALANCING ANTI-THEFT SYSTEM AND METHOD
		oray lab	Tion of	0,010,111	0,11000	16/881 540	*********	Dublished	States of	America	FOR STRING BALANCING ENHANCED SYSTEM AND METHOD
	##	Tigo Energy Inc	를 5 5 11	N 673 244	6/2/2020 10 673 244	15/172 006	5/3/301A	Greented	America	America	FOR STRING-BALANCING
		Tigo Energy, Inc.	Tigo En	,368,965	6/14/2016 9,368,965	13/418,279	3/12/2012	Granted	United States of	United	ENHANCED SYSTEM AND METHOD
											MODULES FOR HIGH-POWER
		Tigo Energy, Inc.	Tigo En	,982,591	3/17/2015 8,982,591	13/410,175	3/1/2012	Granted	United States of America	United S America	SYSTEM AND METHOD FOR EXCHANGEABLE CAPACITOR
										D	MANAGEMENT UNITS OF DISTRIBUTED POWER GENERATORS
		rigo Elicigy, ilic.	- - - - - -	0,014,004	0/4/2019:10,512,092	10/220,002	0/ 1/2010	Galited	America		THE NUMBER AND COST OF
		eray Inc	Tigo En	N 319 609	<i>6/1/2</i> 010:1	15/335 603		Granted	States of		POWER GENERATORS
									Ð	America D	HE NUMBER AND COST OF
		Tigo Energy, Inc.	Tigo⊞n	,431,825	8/30/2016 9,431,825	13/346,482	1/9/2012	Granted	United States of	United	SYSTEM AND METHOD TO REDUCE
		Tigo Energy , Inc.	Tigo En	0,819,117	10/27/2020 10,819,117	15/845,980	12/18/2017	Granted	United States of America		SYSTEMS AND METHODS TO COMBINE STRINGS OF SOLAR PANELS
] 				11999999				
		933	¢	4					σ.		STRINGS OF SOLAR PANELS
R	300V	Tigo Energy, Inc.	Tigo En	.847.646	12/19/2017 9.847.646	14/827.023	8/14/2015	Granted	America United States of		SYSTEMS AND METHODS TO COMBINE
REE		Tigo Energy, Inc.	Tigo En	,142,965	9/22/2015 9,142,965	13/332,299	12/20/2011	Granted	United States of	United	SYSTEM AND METHOD TO COMBINE
EL:									1		SOLAR ENERGY SYSTEMS
	TF	ligo Energy , Inc.	l igo ⊏n			1//001,485	8/24/2020	Published	∪nited States of America	Onited &	SYSTEM AND METHOUTOR ARC
756	RAC						S		2		SOLAR ENERGY SYSTEMS
	ΕN	Tigo Energy, Inc.	Tigo En	0,754,365	8/25/2020 10,754,365	15/933,861	3/23/2018	Granted	United States of	United S	SYSTEM AND METHOD FOR ARC
	lΑ						1999				LARGE SOLAR ENERGY SYSTEMS
	RK	*	0	,011,011				Cidinica	a constant	America	DETECTION AND INTERVENTION IN
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18	900	Tigo Energy, Inc.	Tigo En	,043,039	5/26/2015 9,043,039	13/075,093	3/29/2011	Granted	United States of	United S	SYSTEM AND METHOD FOR ARC
		ligo Energy, Inc.	ligo ⊑n	,841,916	9/23/2014 8,841,916	13/28/,021	11/1/2011	Granted	United States of	United	SYSTEM AND METHOD FOR FLASH
	Š	Tigo Energy, Inc.	Tigo En	0,461,570	10/29/2019 10,461,570	15/243,493	8/22/2016	Granted	United States of America		SYSTEMS AND METHODS TO PROVIDE ENHANCED DIODE BYPASS PATHS

							G G EW
	TBD	5/31/2011 7,602,080	90/010,892	3/25/2009	Granted	United States of America	SYSTEMS AND METHODS TO BALANCE SOLAR PANELS IN A MULTI-PANEL CYSTEM
ä						America	TRANSMITTED OVER POWER LINES
\$	Tiao Eneray. Inc.		17/225.885	4/8/2021	Published	United States of	SYNCHRONIZATION OF SIGNALS
						America	ENHANCED CONTACTS FOR JUNCTION BOXES ON SOLAR PANELS
	Tigo Energy, Inc.	7/23/2019 10,361,654	15/996,288	6/1/2018	Granted	United States of	SYSTEM AND METHOD FOR NEW,
4						America	SOLAR PANELS
	Tigo Energy, Inc.	6/5/2018 9,991,843	15/612,977	6/2/2017	Granted	United States of	CONTACTS FOR JUNCTION BOXES ON
							FROM INPUT CAPACITORS OF POWER INVERTERS
	Tigo Energy, Inc.		16/841,408	4/6/2020	Application	United States of America	SYSTEMS AND METHODS FOR QUICK DISSIPATION OF STORED ENERGY
â			ğ				INVERTERS
RE			******				FROM INPUT CAPACITORS OF POWER
ΞΕ	(*****		DISSIPATION OF STORED ENERGY
L:	'Tigo Energy, Inc.	9/4/2020 ZL201680029553.7 Tigo Energy, Inc.	201680029553.	5/20/2016	Granted	China	SYSTEMS AND METHODS FOR QUICK
	_						INIVERTERS
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4D 563	ligo Energy, Inc.	4///2020 10,615,60/	15/159,699	5/19/2016	Granted	United States of America	DISSIBATION OF STORED ENERGY
			33		•		MODULES
					******	America	HAVING INTEGRATED FUNCTION
	Tigo Energy, Inc.	11/16/2021 11,177,769	16/270,475	2/7/2019	Granted	United States of	SOLAR PANEL JUNCTION BOXES
_	7						MODULES
i: (America	HAVING INTEGRATED FUNCTION
80	Tigo Energy, Inc.	2/26/2019 10,218,307	14/957,503	12/2/2015	Granted	United States of	SOLAR PANEL JUNCTION BOXES
19							POWER FEED
)					*****	America	COST, HIGH-EFFICIENCY SOLAR PANEL America
	Tigo Energy, Inc.	11/9/2021 11,171,490	16/888,561	5/29/2020	Granted	United States of	SYSTEM AND METHOD FOR LOW-
							POWER FEED
	(C						COST, HIGH-EFFICIENCY SOLAR PANEL
	Tigo Energy, Inc.	6/2/2020 10,673,245	15/365,753	11/30/2016	Granted	United States of	SYSTEM AND METHOD FOR LOW-

TIGO ENERGY (stylized/design)	TIGO	TIGO ENERGY	TIGO	Mark Name
		TIGO ENERGY	TIGO	image
United States of America	United States of America	United States of America	United States of America	Country
Registered	Registered	Registered	Registered	Status
1/29/2009	1/29/2009	1/29/2009	1/29/2009	aled Bale
77/659,647	77/659,634	77/659,613	77/659,595	Application No.
8/24/2010	4/6/2010	9/7/2010	4/6/2010	Reg. Date
3,838,677	3,773,091	3,845,975	3,773,090	Registration No.
Tigo Energy, Inc.	Tigo Energy, Inc.	Tigo Energy, Inc.	Tigo Energy, Inc.	Owner

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None.	
<u>Licenses</u>	
None.	

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RECORDED: 01/20/2022 REEL: 007563 FRAME: 0821