502304159 04/09/2013

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Stephen P. Murphy	03/22/2013
Anthony Maher	03/22/2013
Gregory A. Ritz	03/22/2013
Imran Khan	03/22/2013
Weston Gerwin	03/22/2013
Dhruv Gajaria	03/27/2013
Yacov Elgar	03/27/2013
Scott Edmonson	03/27/2013
Scott Jacoby	03/22/2013

RECEIVING PARTY DATA

Name:	FIRST SOLAR, INC.
Street Address:	28101 Cedar Park Boulevard
Internal Address:	P.O. Box 730
City:	Perrysburg
State/Country:	ОНЮ
Postal Code:	43551

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13836449

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: damicot@dicksteinshapiro.com

Correspondent Name: Dickstein Shapiro LLP Address Line 1: 1825 Eye Street, NW

Address Line 4: Washington, DISTRICT OF COLUMBIA 20006

PATENT

REEL: 030179 FRAME: 0678

OF \$40.00 13836449

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ATTORNEY DOCKET NUMBER:	F4500.1147/P1147-A
NAME OF SUBMITTER:	Thomas J. D'Amico
Signature:	/Thomas J. D'Amico/
Date:	04/09/2013
Total Attachments: 12 source=F1147A#page1.tif source=F1147A#page2.tif source=F1147A#page3.tif source=F1147A#page4.tif source=F1147A#page5.tif source=F1147A#page6.tif source=F1147A#page7.tif source=F1147A#page8.tif source=F1147A#page9.tif source=F1147A#page9.tif source=F1147A#page10.tif source=F1147A#page11.tif source=F1147A#page12.tif	

PATENT REEL: 030179 FRAME: 0679

ASSIGNMENT BY INVENTORS

Maher

THIS ASSIGNMENT, made by Stephen P. Murphy; Anthony-Mayer; Gregory A. Ritz; Imran Khan; Weston Gerwin; Dhruv Gajaria; Yacov Elgar; Scott Edmonson; and Scott Jacoby (hereinafter referred to as Assignors), residing at 613 Delaware Drive, Perrysburg, OH 43551; 26724 Sheringham Rd, Perrysburg, OH 43551; 9805 Wolfinger Road, Berkey, OH 43504; 1417 Indian Creek Drive, Perrysburg, OH 43551; 25331 Ramblehurst Dr., Perrysburg, OH 43551; PO Box 70182, Sunnyvale, CA 94086; 1519 Oriole Ave, Sunnyvale, CA 94087; 1792 Duvall Drive, San Jose, CA 95130; 6951 Williamsburg Sylvania, OH 43560 and, respectively,

WHEREAS, Assignors have invented certain new and useful improvements in SYSTEM AND METHOD FOR PHOTOVOLTAIC DEVICE TEMPERATURE CONTROL WHILE CONDITIONING A PHOTOVOLTAIC DEVICE, set forth in a Patent application for Letters Patent of the United States, already filed on March 15, 2013 as U.S. application No. 13/836,449; and

WHEREAS, FIRST SOLAR, INC, a Corporation organized under and pursuant to the laws of Delaware having its principal place of business at First Solar, Inc., P.O. Box 730, 28101 Cedar Park Boulevard, Perrysburg, Ohio 43551 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in accordance with Intellectual Property provisions of the employment agreement previously executed by and between Assignce and Assignors, and for other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and in and to all any and all Letters Patent in the United States and all foreign countries which may be

PATENT REEL: 030179 FRAME: 0680 granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property including all rights of priority, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignce, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent abovementioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters

Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

DICKSTEIN SHAPIRO LLP

All practitioners at Customer Number 16080.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

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					J
Date: $3/22$	-/13				
United States of Amer	ica ,)			
State of	Ohio) ss.:			
County of	Word				
On this 22	_ day of	Narch	,	2013	_, before me
personally came	Stephen I	P. Murphy	, to	me known to	be the individual
described in and who	executed the fore	egoing instrun	nent, and	acknowledged	l execution
of the same.					
			SMO	sh Kane	·
		N	otary Pu	blic	

	laty J. Men
Date: 3/22/2013	Anthony Mayer. Anthony Maher
United States of America State of Ohio ss.: County of Wood	
On this 22 day of Warch personally came Anthony Mayer described in and who executed the foregoing instrum of the same. Anthony Mahe	, 2013, before me, to me known to be the individual ment, and acknowledged execution Saa Hawley Otary Public
	* SARAH KANE NOTARY PUBLIC-OHIO



Date: $\frac{3/22/2013}{}$
United States of America State of ONID ss.: County of DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
On this 22 day of \(\text{MAC} \), \(\text{2013} \), before me personally came \(\text{Gregory A. Ritz} \), to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.
Notary Public SARAH KANE NOTARY PUBLIC - OHIO MY COMMISSION EXPERS 02-16-2016

	· AW al
	Imran Khan
Date: $\frac{3/2^2/2^{3/3}}{}$	
United States of America	
State of $\bigcirc \bigcirc \bigcirc \bigcirc$ ss.	:
County of UOOA)	
On this 22 day of March personally came Imran Khan	, 2013, before me, to me known to be the individual
described in and who executed the foregoing instr	ument, and acknowledged execution
of the same.	Sarah Kane
	Notary Public
	SARAH KANE NOTARTY PUBLIC - OHIO MY COMMISSION EXPIRES 02-16-2016
	William,

3/22/2013 United States of America) ss.: County of day of 013, before me , to me known to be the individual personally came Weston Gerwin described in and who executed the foregoing instrument, and acknowledged execution of the same.

Date:

State of

SUNITA SINGH
Commission # 1994918
Notary Public - California
Santa Clara County
My Comm. Expires Nov 18, 2016

WITNESS my hand and official seal.

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is

true and correct.

		۳	VU YIK
			Yacov Elgar
Date: 3-2	7-13	 	
United States of An	nerica)	
State of) ss.:	
County of)	
On this	day of		, before me
personally came			me known to be the individual
	no executed the for	egoing instrument, and	acknowledged execution
of the same.			
		Notary Pub	lic
		- · · · · · · · · · · · · · · · · · · ·	-
		1 1	
	State of Califor On <u>Mar 2</u>	nia County of <u>Janta Cla</u> 7,2013 before me VV nu t	June Jan June Jan June Jan June June June June June June June Jun
	Notary Public,	personally appeared Ya Col	Elgan
	person(s) whos	me on the basis of satisfactory ese name(s) is/are subscribed to the w	thin instrument and
	acknowledged	to me that he/she/they executed the spacity(ies), and that by his/her/their	ame in his/her/their
	instrument the	person(s), or the entity upon behalf of	which the person(s)
	acted, execute	d the instrument. I certify under PENA of the State of California that the fore	ALTY OF PERJURY
	true and correc		
	مممور	SUNITA SINGH	~
		Commission # 1994918	
	NA	Notary Public - California	N N N
		Santa Clara County My Comm. Expires Nov 18, 20	6 🕻
	7~~~	,	- ✓

Scott Edmonson

Date:	27/2013		
United States of An	merica)) ss.:	
County of			
On this personally came described in and w of the same.	day of Scott Edi ho executed the fores		, to me known to be the individual and acknowledged execution
	State of Cal iforn	Notary Rotary	
,v	On July 2000 Notary Public, powho proved to person(s) whose acknowledged to authorized cape instrument the pacted, executed	before me_claresonally appeared <u>Cct1</u> me on the basis of satisfies a name(s) is/are subscribed to me that he/she/they executacity(ies), and that by his/he erson(s), or the entity upon by the instrument. I certify under the State of California that	Earnon Foundation of the total within instrument and ted the same in his/her/their er/their signature(s) on the ehalf of which the person(s) er PENALTY OF PERJURY Ithe foregoing paragraph is

SUNITA SINGH
Commission # 1994918
Notary Public - California
Santa Clara County
My Comm. Expires Nov 18, 2016

Sixt lan
Scott Jacoby
Date: $\frac{3/22/13}{}$
United States of America State of County of State of Wood
On this 22 day of MWW, 2013, before me bersonally came Scott Jacoby, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.
Notary Public
SARAH KANE NOTARY PUBLIC - OHIO
MY COMMISSION EXPIRES 02-18-2016