

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3693211

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	SECURITY INTEREST	
CONVEYING PARTY DATA		
	Name	Execution Date
	SUNEDISON, INC.	01/11/2016
	SUN EDISON LLC	01/11/2016
	SOLAICX	01/11/2016
	NVT, LLC	01/11/2016
RECEIVING PARTY DATA		
Name:	WILMINGTON TRUST, NATIONAL ASSOCIATION, SOLELY IN ITS CAPACITY AS COLLATERAL TRUSTEE	
Street Address:	1100 NORTH MARKET STREET	
City:	WILMINGTON	
State/Country:	DELAWARE	
Postal Code:	19890	
PROPERTY NUMBERS Total: 128		
	Property Type	Number
	Patent Number:	D560605
	Patent Number:	D560606
	Patent Number:	7635414
	Patent Number:	8257496
	Patent Number:	8262797
	Patent Number:	8317919
	Patent Number:	8274028
	Patent Number:	8272176
	Patent Number:	8726897
	Patent Number:	8816189
	Patent Number:	5910295
	Patent Number:	7691351
	Patent Number:	7721492
	Patent Number:	7856769
	Patent Number:	7857269
	Patent Number:	7900407
	Patent Number:	7943108
		PATENT

Property Type	Number
Patent Number:	8023266
Patent Number:	8177180
Patent Number:	8234821
Patent Number:	8256170
Patent Number:	8273157
Patent Number:	8300439
Patent Number:	8344239
Patent Number:	8360050
Patent Number:	8375936
Patent Number:	8383943
Patent Number:	8386197
Patent Number:	8388914
Patent Number:	8388925
Patent Number:	8404206
Patent Number:	8418688
Patent Number:	8449848
Patent Number:	8452547
Patent Number:	8524044
Patent Number:	8524045
Patent Number:	8524048
Patent Number:	8529860
Patent Number:	8551298
Patent Number:	8656659
Patent Number:	8659880
Patent Number:	8660708
Patent Number:	8665610
Patent Number:	8715597
Patent Number:	8728574
Patent Number:	8739478
Patent Number:	8745936
Patent Number:	8790451
Patent Number:	8806813
Patent Number:	8807839
Patent Number:	8816870
Patent Number:	8821825
Patent Number:	8828324
Patent Number:	8834825
Patent Number:	8849584

Property Type	Number
Patent Number:	8878112
Patent Number:	8906313
Patent Number:	8946542
Patent Number:	8953350
Patent Number:	8956584
Patent Number:	8960657
Patent Number:	8974761
Patent Number:	8988182
Patent Number:	9011803
Patent Number:	9027289
Patent Number:	9061916
Patent Number:	9103563
Patent Number:	9114996
Patent Number:	9114997
Patent Number:	9142616
Patent Number:	9156705
Patent Number:	9170031
Patent Number:	9174848
Patent Number:	9188367
Patent Number:	D600638
Patent Number:	D601491
Patent Number:	D605652
Patent Number:	D611895
Patent Number:	D613243
Patent Number:	D630576
Patent Number:	D647843
Patent Number:	D648425
Patent Number:	D649554
Patent Number:	D655210
Patent Number:	D677619
Patent Number:	D687839
Patent Number:	D688620
Patent Number:	D697022
Application Number:	13688969
Application Number:	13689189
Application Number:	13604277
Application Number:	13900687
Application Number:	13529519

Property Type	Number
Application Number:	14361846
Application Number:	11836140
Application Number:	12896752
Application Number:	12796360
Application Number:	13683822
Application Number:	13751294
Application Number:	13762416
Application Number:	13828725
Application Number:	13871205
Application Number:	13836018
Application Number:	13656336
Application Number:	14092370
Application Number:	14098918
Application Number:	14107743
Application Number:	14134861
Application Number:	13731219
Application Number:	13731222
Application Number:	13804585
Application Number:	13837092
Application Number:	13830514
Application Number:	13830490
Application Number:	14300921
Application Number:	14310654
Application Number:	14310624
Application Number:	14027840
Application Number:	14582256
Application Number:	14525966
Application Number:	14072485
Application Number:	14087604
Application Number:	14622326
Application Number:	14610607
Application Number:	14799705
Application Number:	14799728
Application Number:	14650959
Application Number:	14243691

CORRESPONDENCE DATA

Fax Number: (312)993-9767

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: 3129932647
Email: zeynep.gieseke@lw.com
Correspondent Name: ZEYNEP GIESEKE
Address Line 1: 330 N. WABASH AVENUE, SUITE 2800
Address Line 2: LATHAM & WATKINS LLP
Address Line 4: CHICAGO, ILLINOIS 60611

ATTORNEY DOCKET NUMBER:	016887-0121
NAME OF SUBMITTER:	ZEYNEP GIESEKE
SIGNATURE:	/zg/
DATE SIGNED:	01/13/2016

Total Attachments: 15

source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page1.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page2.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page3.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page4.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page5.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page6.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page7.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page8.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page9.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page10.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page11.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page12.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page13.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page14.tif
source=Second Lien Patent Security Agreement [EXECUTED](2247013_1_CH)#page15.tif

SECOND LIEN PATENT SECURITY AGREEMENT

This **SECOND LIEN PATENT SECURITY AGREEMENT**, dated as of January 11, 2016 (as it may be amended, restated, supplemented or otherwise modified from time to time, this “**Agreement**”), is made by the entities identified as grantors on the signature pages hereto (collectively, the “**Grantors**”) in favor of Wilmington Trust, National Association, as collateral trustee for the Secured Parties (in such capacity, together with its successors and permitted assigns, the “**Collateral Trustee**”).

WHEREAS, the Grantors are party to a Second Lien Pledge and Security Agreement dated as of January 11, 2016 (as it may be amended, restated, supplemented or otherwise modified from time to time, the “**Pledge and Security Agreement**”) between each of the Grantors and the other grantors party thereto and the Collateral Trustee pursuant to which the Grantors granted a security interest to the Collateral Trustee in the Patent Collateral (as defined below) and are required to execute and deliver this Agreement.

NOW, THEREFORE, in consideration of the foregoing and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Grantors hereby agree with the Collateral Trustee as follows:

SECTION. 1. Defined Terms

Unless otherwise defined herein, terms defined in the Pledge and Security Agreement and used herein have the meaning given to them in the Pledge and Security Agreement.

SECTION 2. Grant of Security Interest

Each Grantor hereby grants to the Collateral Trustee, for the benefit of the Secured Parties, a security interest in and continuing lien on all of such Grantor’s right, title and interest in, to and under the following, in each case whether now or hereafter existing or in which such Grantor now has or hereafter acquires an interest and wherever the same may be located (collectively, the “**Patent Collateral**”):

all United States and foreign patents and certificates of invention, or similar industrial property rights, and applications for any of the foregoing, including, but not limited to: (i) each patent and patent application listed in Schedule A attached hereto (as such schedule may be amended or supplemented from time to time), (ii) all reissues, divisions, continuations, continuations-in-part, extensions, renewals, and reexaminations thereof, (iii) all patentable inventions and improvements thereto, (iv) the right to sue or otherwise recover for any past, present and future infringement or other violation thereof, (v) all Proceeds of the foregoing, including, without limitation, license fees, royalties, income, payments, claims, damages, and proceeds of suit now or hereafter due and/or payable with respect thereto, and (vi) all other rights of any kind accruing thereunder or pertaining thereto throughout the world.

SECTION 3. Security Agreement

The security interest granted pursuant to this Agreement is granted in conjunction with the security interest granted to the Collateral Trustee for the Secured Parties pursuant to the Pledge and Security Agreement, and the Grantors hereby acknowledge and affirm that the rights and remedies of the Collateral Trustee with respect to the security interest in the Patent Collateral made and granted

hereby are more fully set forth in the Pledge and Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Agreement is deemed to conflict with the Pledge and Security Agreement, the provisions of the Pledge and Security Agreement shall control.

SECTION 4. Intercreditor Agreement

Notwithstanding anything herein to the contrary, the exercise of any right or remedy by the Collateral Trustee hereunder with respect to the lien and security interest granted to the Collateral Trustee pursuant to this Agreement is subject to the provisions of the Intercreditor Agreement and the Collateral Trust Agreement. In the event of any conflict between the terms of the Intercreditor Agreement and this Agreement with respect to the exercise of rights and remedies or the priority of the security interests granted to the Collateral Trustee herein, the terms of the Intercreditor Agreement shall govern and control. In the event of any conflict between the terms of the Collateral Trust Agreement and this Agreement with respect to the exercise of rights and remedies of the security interests granted to the Collateral Trustee herein, the terms of the Collateral Trust Agreement shall govern and control.

SECTION 5. Governing Law

THIS AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES HEREUNDER AND ALL CLAIMS AND CONTROVERSIES ARISING OUT OF THE SUBJECT MATTER HEREOF WHETHER SOUNDING IN CONTRACT LAW, TORT LAW OR OTHERWISE SHALL BE GOVERNED BY, AND SHALL BE CONSTRUED AND ENFORCED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK, WITHOUT REGARD TO CONFLICTS OF LAW PROVISIONS THAT WOULD RESULT IN THE APPLICATION OF ANY OTHER LAW (OTHER THAN ANY MANDATORY PROVISIONS OF LAW RELATING TO THE LAW GOVERNING PERFECTION AND THE EFFECT OF PERFECTION OF THE SECURITY INTEREST).

SECTION 6. Counterparts

This Agreement may be executed in one or more counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed an original, but all such counterparts together shall constitute but one and the same instrument.

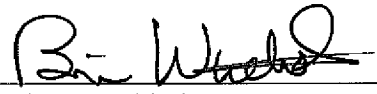
SECTION 7. Concerning the Collateral Trustee

Wilmington Trust, National Association is entering into this Agreement solely in its capacity as Collateral Trustee and not in its individual or corporate capacity. The rights, privileges and immunities of the Collateral Trustee pursuant to the Pledge and Security Agreement and the Collateral Trust Agreement (as defined in the Pledge and Security Agreement), shall be incorporated as though fully set forth herein.

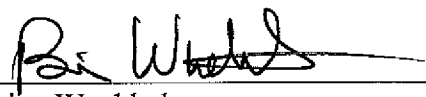
[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, each Grantor has caused this Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

SUNEDISON, INC.

By: 
Name: Brian Wuebbels
Title: Executive Vice President, CAO & CFO

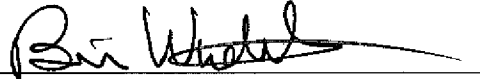
SUN EDISON LLC

By: 

Name: Brian Wuebbels

Title: Authorized Officer

SOLAICX

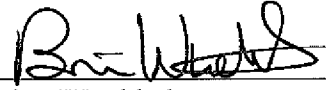
By: 

Name: Brian Wuebbels

Title: Authorized Officer

NVT, LLC

By: _____



Name: Brian Wuebbels

Title: Authorized Officer

Accepted and Agreed:

WILMINGTON TRUST, NATIONAL ASSOCIATION,
solely in its capacity as Collateral Trustee

By: W. T. Morris II

Name: W. Thomas Morris II

Title: Vice President

SCHEDULE A
to
SECOND LIEN PATENT SECURITY AGREEMENT
PATENTS AND PATENT APPLICATIONS

GRANTOR	PATENT NO./PUB. NO.	APPLICATION NUMBER	TITLE
NVT, LLC	D560605	29/249104	SOLAR PANEL FRAME
NVT, LLC	D560606	29/249321	FRAMED SOLAR PANEL
Solaicx	7635414	10/789638	SYSTEM FOR CONTINUOUS GROWING OF MONOCRYSTALLINE SILICON
Solaicx	8257496	12/315452	CRUCIBLE WEIGHT MEASUREMENT SYSTEM FOR CONTROLLING FEEDSTOCK INTRODUCTION IN CZOCHRALSKI CRYSTAL GROWTH
Solaicx	8262797	12/075513	WEIR DESIGN PROVIDING OPTIMAL PURGE GAS FLOW, MELT CONTROL, AND TEMPERATURE STABILIZATION FOR IMPROVED SINGLE CRYSTAL GROWTH IN A CONTINUOUS CZOCHRALSKI PROCESS
Solaicx	8317919	10/525824	SYSTEM FOR CONTINUOUS GROWING OF MONOCRYSTALLINE SILICON
Solaicx	2013-0233237	13/604277	WEIR METHOD FOR IMPROVED SINGLE CRYSTAL GROWTH IN A CONTINUOUS CZOCHRALSKI PROCESS
Solaicx	2014-0144371	13/688969	HEAT SHIELD FOR IMPROVED CONTINUOUS CZOCHRALSKI PROCESS
Solaicx	2014-0144372	13/689189	WEIR FOR IMPROVED CRYSTAL GROWTH IN A CONTINUOUS CZOCHRALSKI PROCESS
SunEdison LLC	8272176	12/853838	METHODS OF ASSEMBLING SOLAR ENERGY COLLECTING MODULES
SunEdison LLC	8274028	12/395231	COUNTERWEIGHTED ACTIVE TRACKING SOLAR PANEL RACK
SunEdison LLC	8726897	13/048054	COLLAPSIBLE SOLAR MODULE SUPPORT SYSTEM AND METHOD FOR ASSEMBLING THE SAME
SunEdison LLC	8816189	13/209033	INTEGRATED SOLAR MODULE
SunEdison LLC	2013-0314958	13/900687	SOFT SWITCHING POWER CONVERTERS
SunEdison LLC	2013-0343098	13/529519	POWER CONVERTERS AND METHODS FOR ACTIVE LEAKAGE ENERGY RECOVERY IN A POWER CONVERTER

GRANTOR	PATENT NO./PUB. NO.	APPLICATION NUMBER	TITLE
SunEdison LLC	2014-0366932	14/361846	METHODS AND SYSTEMS FOR EVAPORATION CONTROL AND POWER PRODUCTION
SunEdison, Inc.	5910295	08/966798	CLOSED LOOP PROCESS FOR PRODUCING POLYCRYSTALLINE SILICON AND FUMED SILICA
SunEdison, Inc.	7691351	12/202807	METHOD FOR TREATMENT OF A GAS STREAM CONTAINING SILICON TETRAFLUORIDE AND HYDROGEN CHLORIDE
SunEdison, Inc.	7721492	11/851299	STRUT RUNNER MEMBER AND ASSEMBLY USING SAME FOR MOUNTING ARRAYS ON ROOFTOPS AND OTHER STRUCTURES
SunEdison, Inc.	7856769	11/332000	RACK ASSEMBLY FOR MOUNTING SOLAR MODULES
SunEdison, Inc.	7857269	11/947658	MOUNTING ASSEMBLY FOR ARRAYS AND OTHER SURFACE-MOUNTED EQUIPMENT
SunEdison, Inc.	7900407	11/750948	INTERCONNECTED SOLAR MODULE DESIGN AND SYSTEM
SunEdison, Inc.	7943108	12/208464	PROCESSES FOR PURIFICATION OF SILICON TETRAFLUORIDE
SunEdison, Inc.	8023266	12/468468	AC PHOTOVOLTAIC MODULE AND INVERTER ASSEMBLY
SunEdison, Inc.	8177180	12/947601	MOUNTING ASSEMBLY FOR ARRAYS AND OTHER SURFACE-MOUNTED EQUIPMENT
SunEdison, Inc.	8234821	12/761325	STRUT RUNNER MEMBER AND ASSEMBLY USING SAME FOR MOUNTING ARRAYS ON ROOFTOPS AND OTHER STRUCTURES
SunEdison, Inc.	8256170	12/949551	RACK ASSEMBLY FOR MOUNTING SOLAR MODULES
SunEdison, Inc.	8273157	12/686353	METHOD AND SYSTEM FOR AN INTEGRATED AIR FILTERING APPARATUS AND THERMAL SOLAR SYSTEM USING ASPECT RATIO
SunEdison, Inc.	8300439	12/450002	DATA ACQUISITION APPARATUS AND METHODOLOGY FOR SELF-DIAGNOSING OF AC MODULES
SunEdison, Inc.	8344239	10/855254	MECHANISM FOR MOUNTING SOLAR MODULES
SunEdison, Inc.	8360050	12/709308	METHOD AND SYSTEM FOR OPERATING A THERMAL SOLAR SYSTEM USING A REVERSE MOTOR CONFIGURATION FOR THAWING ICE
SunEdison, Inc.	8375936	12/639970	METHOD AND SYSTEM FOR OPERATING A THERMAL SOLAR SYSTEM USING A REVERSE MOTOR CONFIGURATION
SunEdison, Inc.	8383943	12/411786	ELECTRICAL CABLE HARNESS AND ASSEMBLY FOR TRANSMITTING AC ELECTRICAL POWER
SunEdison, Inc.	8386197	12/684788	METHOD AND SYSTEM FOR PROCESSING INFORMATION FROM A COMBINATION OF A

GRANTOR	PATENT NO./PUB. NO.	APPLICATION NUMBER	TITLE
			SOLAR THERMAL SYSTEM AND A PHOTOVOLTAIC APPARATUS
SunEdison, Inc.	8388914	12/978189	SYSTEMS FOR PRODUCING SILANE
SunEdison, Inc.	8388925	12/969058	METHODS FOR PRODUCING ALUMINUM TRIFLUORIDE
SunEdison, Inc.	8404206	13/163027	METHODS FOR PRODUCING POLYCRYSTALLINE SILICON THAT REDUCE THE DEPOSITION OF SILICON ON REACTOR WALLS
SunEdison, Inc.	8418688	12/592751	ASSEMBLY AND METHOD FOR MOUNTING SOLAR PANELS TO STRUCTURAL SURFACES
SunEdison, Inc.	8449848	12/910553	PRODUCTION OF POLYCRYSTALLINE SILICON IN SUBSTANTIALLY CLOSED-LOOP SYSTEMS
SunEdison, Inc.	8452547	12/981084	SYSTEMS AND METHODS FOR PARTICLE SIZE DETERMINATION AND CONTROL IN A FLUIDIZED BED REACTOR
SunEdison, Inc.	8524044	12/898487	SYSTEMS FOR RECOVERING SILANE FROM HEAVY-ENDS SEPARATION OPERATIONS
SunEdison, Inc.	8524045	13/246574	SYSTEMS FOR PURIFYING SILANE
SunEdison, Inc.	8524048	12/898494	PROCESSES FOR RECOVERING SILANE FROM HEAVY-ENDS SEPARATION OPERATIONS
SunEdison, Inc.	8529860	12/969089	METHODS FOR PRODUCING SILICON TETRAFLUORIDE
SunEdison, Inc.	8551298	13/246571	PROCESSES FOR PURIFYING SILANE
SunEdison, Inc.	8656659	13/042266	INTERCONNECTED SOLAR MODULE DESIGN AND SYSTEM
SunEdison, Inc.	8659880	13/200190	AC PHOTOVOLTAIC MODULE AND INVERTER ASSEMBLY
SunEdison, Inc.	8660708	13/151989	METHOD AND SYSTEM FOR HEALTHY HOME ZONING CONTROL CONFIGURED FOR EFFICIENT ENERGY USE AND CONSERVATION OF ENERGY RESOURCES
SunEdison, Inc.	8665610	12/889948	MODIFIED ZERO VOLTAGE TRANSITION (ZVT) FULL BRIDGE CONVERTER AND PHOTOVOLTAIC (PV) ARRAY USING THE SAME

GRANTOR	PATENT NO./PUB. NO.	APPLICATION NUMBER	TITLE
SunEdison, Inc.	8715597	13/328030	PRODUCTION OF POLYCRYSTALLINE SILICON IN SUBSTANTIALLY CLOSED-LOOP SYSTEMS THAT INVOLVE DISPROPORTIONATION OPERATIONS
SunEdison, Inc.	8728574	13/455483	METHODS FOR INTRODUCING A FIRST GAS AND A SECOND GAS INTO A REACTION CHAMBER
SunEdison, Inc.	8739478	13/250908	INTEGRATED THERMAL MODULE AND BACK PLATE STRUCTURE AND RELATED METHODS
SunEdison, Inc.	8745936	13/566935	RACK ASSEMBLY FOR MOUNTING SOLAR MODULES
SunEdison, Inc.	8790451	13/235338	METHOD AND SYSTEM FOR INTEGRATED HOME COOLING UTILIZING SOLAR POWER
SunEdison, Inc.	8806813	11/848766	TECHNIQUE FOR ELECTRICALLY BONDING SOLAR MODULES AND MOUNTING ASSEMBLIES
SunEdison, Inc.	8807839	13/319296	SYNTHETIC RESIN BEARING FOR PHOTOVOLTAIC TRACKING SYSTEM
SunEdison, Inc.	8816870	12/750631	HEALTHY HOME GRAPHICAL USER INTERFACE METHOD AND DEVICE
SunEdison, Inc.	8821825	12/978209	METHODS FOR PRODUCING SILANE
SunEdison, Inc.	8828324	12/977849	FLUIDIZED BED REACTOR SYSTEMS AND DISTRIBUTORS FOR USE IN SAME
SunEdison, Inc.	8834825	13/528386	PROCESSES FOR PRODUCING SILANE IN A BUBBLE COLUMN
SunEdison, Inc.	8849584	12/981074	SYSTEMS AND METHODS FOR PARTICLE SIZE DETERMINATION AND CONTROL IN A FLUIDIZED BED REACTOR FOR USE WITH THERMALLY DECOMPOSABLE SILICON-CONTAINING GAS
SunEdison, Inc.	8878112	13/380714	SOLAR POWER GENERATING APPARATUS AND SOLAR TRACKING METHOD
SunEdison, Inc.	8906313	12/494006	FLUIDIZED BED REACTOR SYSTEMS AND METHODS FOR REDUCING THE DEPOSITION OF SILICON ON REACTOR WALLS
SunEdison, Inc.	8946542	13/531779	SOLAR MODULE BONDING METHOD INTEGRATED INTO A PAN STRUCTURE
SunEdison, Inc.	8953350	13/439135	PHOTOVOLTAIC POWER CONVERTERS
SunEdison, Inc.	8956584	13/328029	PRODUCTION OF POLYCRYSTALLINE SILICON IN SUBSTANTIALLY CLOSED-LOOP PROCESSES THAT INVOLVE DISPROPORTIONATION OPERATIONS
SunEdison, Inc.	8960657	13/253509	SYSTEMS AND METHODS FOR CONNECTING AN INGOT TO A WIRE SAW
SunEdison, Inc.	8974761	14/335531	METHODS FOR PRODUCING SILANE
SunEdison, Inc.	8988182	13/425561	TRANSFORMERS AND METHODS FOR CONSTRUCTING TRANSFORMERS

GRANTOR	PATENT NO./PUB. NO.	APPLICATION NUMBER	TITLE
SunEdison, Inc.	9011803	13/715642	SYSTEMS FOR PRODUCING SILANE
SunEdison, Inc.	9027289	13/562192	INTEGRATED THERMAL MODULE AND BACK PLATE STRUCTURE AND RELATED METHODS
SunEdison, Inc.	9061916	13/709318	PROCESSES AND SYSTEMS FOR PURIFYING SILANE
SunEdison, Inc.	9103563	12/851310	INTEGRATED THERMAL MODULE AND BACK PLATE STRUCTURE AND RELATED METHODS
SunEdison, Inc.	9114996	13/628277	PRODUCTION OF POLYCRYSTALLINE SILICON BY THE THERMAL DECOMPOSITION OF SILANE IN A FLUIDIZED BED REACTOR
SunEdison, Inc.	9114997	13/628282	PRODUCTION OF POLYCRYSTALLINE SILICON BY THE THERMAL DECOMPOSITION OF SILANE IN A FLUIDIZED BED REACTOR
SunEdison, Inc.	9142616	14/596269	SILICON WAFERS WITH SUPPRESSED MINORITY CARRIER LIFETIME DEGRADATION
SunEdison, Inc.	9156705	12/977712	PRODUCTION OF POLYCRYSTALLINE SILICON BY THE THERMAL DECOMPOSITION OF DICHLOROSILANE IN A FLUIDIZED BED REACTOR
SunEdison, Inc.	9170031	12/952095	ENERGY TRANSFER MODULE UTILIZING THERMAL POWER GENERATED BY SOLAR PANELS
SunEdison, Inc.	9174848	14/549145	PROCESSES AND SYSTEMS FOR PURIFYING SILANE
SunEdison, Inc.	9188367	13/319290	SOLAR POWER GENERATION APPARATUS CAPABLE OF TRACKING SUNLIGHT
SunEdison, Inc.	2009-0038668	11/836140	TOPOLOGIES, SYSTEMS AND METHODS FOR CONTROL OF SOLAR ENERGY SUPPLY SYSTEMS
SunEdison, Inc.	2011-0209742	12/896752	METHOD AND STRUCTURE FOR A COOL ROOF BY USING A PLENUM STRUCTURE
SunEdison, Inc.	2011-0300050	12/796360	TRICHLOROSILANE VAPORIZATION SYSTEM
SunEdison, Inc.	2013-0133567	13/683822	SYSTEMS FOR CONTINUOUS GROWING OF INGOTS THAT INCLUDE PRE-MELTERS HAVING A WEIR
SunEdison, Inc.	2013-0136686	13/751294	METHODS FOR PRODUCING ALUMINUM TRIFLUORIDE
SunEdison, Inc.	2013-0168131	13/762416	ELECTRICAL CABLE HARNESS AND ASSEMBLY FOR TRANSMITTING AC ELECTRICAL POWER
SunEdison, Inc.	2013-0195432	13/828725	TRICHLOROSILANE VAPORIZATION SYSTEM
SunEdison, Inc.	2013-0236367	13/871205	PRODUCTION OF POLYCRYSTALLINE SILICON IN SUBSTANTIALLY CLOSED-LOOP SYSTEMS

GRANTOR	PATENT NO./PUB. NO.	APPLICATION NUMBER	TITLE
SunEdison, Inc.	2013-0284585	13/836018	METHODS FOR PURIFYING HALOSILANE-CONTAINING STREAMS
SunEdison, Inc.	2014-0112831	13/656336	USING WAVELET DECOMPOSITION TO DETERMINE THE FLUIDIZATION QUALITY IN A FLUIDIZED BED REACTOR
SunEdison, Inc.	2014-0150826	14/092370	WAFER CLEANING APPARATUS AND METHODS
SunEdison, Inc.	2014-0166099	14/098918	CRYSTALLINE PHOTOVOLTAIC CELLS AND METHODS OF MANUFACTURING
SunEdison, Inc.	2014-0174337	14/107743	WEIR FOR INHIBITING MELT FLOW IN A CRUCIBLE
SunEdison, Inc.	2014-0174338	14/134861	METHODS TO BOND SILICA PARTS
SunEdison, Inc.	2014-0182115	13/731219	METHODS FOR ALIGNING AN INGOT WITH MOUNTING BLOCK
SunEdison, Inc.	2014-0183806	13/731222	SYSTEM AND METHOD FOR ALIGNING AN INGOT WITH MOUNTING BLOCK
SunEdison, Inc.	2014-0261154	13/804585	CZOCHEWSKI CRUCIBLE FOR CONTROLLING OXYGEN AND RELATED METHODS
SunEdison, Inc.	2014-0261155	13/837092	CRUCIBLE FOR CONTROLLING OXYGEN AND RELATED METHODS
SunEdison, Inc.	2014-0271372	13/830514	GAS DECOMPOSITION REACTOR FEEDBACK CONTROL USING RAMAN SPECTROMETRY
SunEdison, Inc.	2014-0271437	13/830490	METHOD OF CONTROLLING A GAS DECOMPOSITION REACTOR BY RAMAN SPECTROMETRY
SunEdison, Inc.	2014-0360555	14/300921	PHOTOVOLTAIC POWER CURTAILMENT METHODS AND SYSTEMS
SunEdison, Inc.	2014-0375132	14/310654	SMART PHOTOVOLTAIC MODULES WITH HIGH DC-AC RATIOS
SunEdison, Inc.	2014-0376270	14/310624	POWER CONVERTERS INCLUDING LLC CONVERTERS AND METHODS OF CONTROLLING THE SAME
SunEdison, Inc.	2015-0081313	14/027840	METHODS AND SYSTEMS FOR PHOTOVOLTAIC SITE INSTALLATION, COMMISSIONING, AND PROVISIONING
SunEdison, Inc.	2015-0110702	14/582256	PRODUCTION OF POLYCRYSTALLINE SILICON IN SUBSTANTIALLY CLOSED-LOOP PROCESSES THAT INVOLVE DISPROPORTIONATION OPERATIONS
SunEdison, Inc.	2015-0116054	14/525966	APPARATUS AND SYSTEMS FOR FILTERING FOR POWER LINE COMMUNICATION
SunEdison, Inc.	2015-0123798	14/072485	METHODS AND SYSTEMS FOR PHOTOVOLTAIC SYSTEM MONITORING
SunEdison, Inc.	2015-0144056	14/087604	CRYSTAL GROWING SYSTEMS AND CRUCIBLES FOR ENHANCING HEAT TRANSFER TO A MELT

GRANTOR	PATENT NO./PUB. NO.	APPLICATION NUMBER	TITLE
SunEdison, Inc.	2015-0151977	14/622326	SYSTEMS FOR PRODUCING SILANE
SunEdison, Inc.	2015-0162868	14/610607	SOLAR POWER SYSTEM AND SOLAR ENERGY TRACKING METHOD
SunEdison, Inc.	2015-0315028	14/799705	PRODUCTION OF POLYCRYSTALLINE SILICON BY THE THERMAL DECOMPOSITION OF SILANE IN A FLUIDIZED BED REACTOR
SunEdison, Inc.	2015-0315029	14/799728	PRODUCTION OF POLYCRYSTALLINE SILICON BY THE THERMAL DECOMPOSITION OF SILANE IN A FLUIDIZED BED REACTOR
SunEdison, Inc.	2015-0329366	14/650959	IMPROVING OPERATION OF FLUIDIZED BED REACTORS BY OPTIMIZING TEMPERATURE GRADIENTS VIA PARTICLE SIZE DISTRIBUTION CONTROL
SunEdison, Inc.	D600638	29/328548	RECESSED SOLAR MODULE APPARATUS
SunEdison, Inc.	D601491	29/329770	THERMAL SOLAR CELL DESIGN
SunEdison, Inc.	D605652	29/328160	GRAPHICAL USER INTERFACE FOR COMPUTER
SunEdison, Inc.	D611895	29/342168	RECESSED SOLAR MODULE APPARATUS
SunEdison, Inc.	D613243	29/342710	THERMAL SOLAR CELL DESIGN
SunEdison, Inc.	D630576	29/344587	SOLAR MODULE APPARATUS
SunEdison, Inc.	D647843	29/343919	ENERGY TRANSFER MODULE
SunEdison, Inc.	D648425	29/351766	CONCENTRIC ADAPTOR
SunEdison, Inc.	D649554	29/346056	GRAPHICAL USER INTERFACE FOR COMPUTER
SunEdison, Inc.	D655210	29/385310	WEB-BASED THERMOSTAT WITH CALENDAR SCHEDULER
SunEdison, Inc.	D677619	29/401866	SOLAR MODULE ASSEMBLY
SunEdison, Inc.	D687839	29/393636	COMPUTER DISPLAY WITH GRAPHICAL USER INTERFACE
SunEdison, Inc.	D688620	29/357428	THERMAL SOLAR CELL DESIGN
SunEdison, Inc.	D697022	29/360845	SOLAR PAN WITH INSERTED FORM
SunEdison, Inc. and	2015-0287858	14/243691	PHOTOVOLTAIC MODULE INTEGRATED MOUNTING AND ELECTRONICS SYSTEMS

GRANTOR	PATENT NO./PUB. NO.	APPLICATION NUMBER	TITLE
SunEdison LLC			