

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT
EFFECTIVE DATE:	03/01/2010
CONVEYING PARTY DATA	
Name	Execution Date
SCHOTT Solar CSP, Inc.	03/04/2011
RECEIVING PARTY DATA	
Name:	SCHOTT Solar PV, Inc.
Street Address:	5201 Hawking Drive, S.E.
Internal Address:	Building B
City:	Albuquerque
State/Country:	NEW MEXICO
Postal Code:	87106
PROPERTY NUMBERS Total: 21	
Property Type	Number
Patent Number:	5698451
Patent Number:	5320684
Patent Number:	5270248
Patent Number:	5527389
Patent Number:	5151377
Patent Number:	5478402
Patent Number:	5733382
Patent Number:	5551977
Patent Number:	5558712
Patent Number:	5994641
Patent Number:	6139811
Patent Number:	6376797
Patent Number:	6201181

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REEL: 027349 FRAME: 0506

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Patent Number:	6423928
Patent Number:	6562132
Patent Number:	6740158
Patent Number:	6815246
Patent Number:	7135069
Patent Number:	7574842
Patent Number:	7435897
Patent Number:	6849842

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:

SCHOTT SOLAR PV ASN

NAME OF SUBMITTER:

Margaret M. Carley

Total Attachments: 9

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ASSIGNMENT

This ASSIGNMENT is made on the date set forth in the signature blocks below, but shall be effective, *nunc pro tunc*, as of March 1, 2010.

WHEREAS, SCHOTT Solar CSP, Inc., a Delaware corporation having an address of 5201 Hawking Drive, S.E., Building A, Albuquerque, New Mexico 87106 (hereinafter "Assignor"), is the owner of the entire right, title and interest in and to the United States Letters Patents and/or Patent Applications and/or related foreign patents and/or patent applications described in Schedule A attached hereto and made a part hereof (hereinafter the "Patents"); and

WHEREAS, SCHOTT Solar PV, Inc., a Delaware corporation having an address of 5201 Hawking Drive, S.E., Building B, Albuquerque, New Mexico 87106 (hereinafter "Assignee"), wishes to acquire Assignor's entire right, title and interest in and to the Patents.

Now, therefore, for good and valuable consideration, receipt of which is hereby expressly acknowledged, the Assignor hereby sells, assigns, and transfers unto Assignee, and to its successors, assigns, and legal representatives, its entire right, title, and interest, in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to and under the Patents (which term shall include hereinafter where the context so admits all divisional, continuing, reissue and other patent applications based thereon) and the inventions (which term shall include each and every such invention, or any part thereof) therein described, and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on or for said inventions or on said applications.

The undersigned officers of Assignor and Assignee represent that each is duly authorized to execute this Assignment on behalf of Assignor and Assignee, respectively, and to carry out all obligations imposed hereunder. The undersigned have read, understand and agree to the terms of this Assignment.

ASSIGNOR:

SCHOTT Solar CSP, Inc.

BY:

M. Jaeckel

Name: Manfred Jaeckel

Title: General Counsel/
Secretary

Date: 3/4/2011

ASSIGNEE:

SCHOTT Solar PV, Inc.

BY:

M. Jaeckel

Name: Manfred Jaeckel

Title: General Counsel/
Secretary

Date: 3/4/2011

State of New York)
County of Bronx) ss.

Before me this 4 day of March, 2011,
personally appeared Manfred Jaeckel, who is to me
personally known, and acknowledged the foregoing instrument
to be his/her free act and deed.

SEAL

My commission expires:

Yvonne M. Farrelly
NOTARY PUBLIC
3-28-2013

YVONNE M. FARRELLY
Notary Public, State of New York
No. 01FA6124634
Qualified in Bronx County
Commission Expires 03/28/2013

RMC/schottcspschottpvpatentassignment.ASN

SCHEDULE A

Attorney's Docket No.	Title	Country	Filing Date	Serial No.	Issue Date	Patent No.
MTA-69 CP2 CON	METHOD OF FABRICATING CONTACTS FOR SOLAR CELLS	USA	5/23/95	08/448,033	12/16/97	5,698,451
MTA-79 AUSTRALIA	WET-TIP DIE FOR EFG CRYSTAL GROWTH APPARATUS	Australia	5/20/91	79077/91	3/14/94	643798
MTA-79 PCT EUROPE	WET-TIP DIE FOR EFG CRYSTAL GROWTH APPARATUS	Europe	5/20/91	91911573.3	11/15/95	0491892
MTA-79 PCT EUROPE/GERMANY	WET-TIP DIE FOR EFG CRYSTAL GROWTH APPARATUS	Germany			11/15/95	69114677.2-08
MTA-79 PCT EUROPE/GREAT BRITAIN	WET-TIP DIE FOR EFG CRYSTAL GROWTH APPARATUS	Great Britain			11/15/95	0491892
MTA-79 SOUTH AFRICA	WET-TIP DIE FOR EFG CRYSTAL GROWTH APPARATUS	South Africa	5/24/91	91/3972	3/25/92	91/3972
MTA-79 CHINA	WET-TIP DIE FOR EFG CRYSTAL GROWTH APPARATUS	China	7/8/91	91104726.3	4/6/96	91104726.3
MTA-79 JAPAN	WET-TIP DIE FOR EFG CRYSTAL GROWTH APPARATUS	Japan	5/20/91	510243/91	3/19/99	2901346
MTA-81 AUSTRALIA	METHOD OF APPLYING METALLIZED CONTACTS TO A SOLAR CELL	Australia	7/1/91	82286/91	3/7/94	643550
MTA-81 EUROPE	METHOD OF APPLYING METALLIZED CONTACTS TO A SOLAR CELL	Europe	7/1/91	91913335.5	4/1/98	0495035
MTA-81 EUROPE/GERMANY	METHOD OF APPLYING METALLIZED CONTACTS TO A SOLAR CELL	Germany			4/1/98	69129185.3-08
MTA-81 EUROPE/GREAT BRITAIN	METHOD OF APPLYING METALLIZED CONTACTS TO A SOLAR CELL	Great Britain			4/1/98	0495035
MTA-81 JAPAN	METHOD OF APPLYING METALLIZED CONTACTS TO A SOLAR CELL	Japan	7/1/91	512445/91	9/25/98	2831130

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MTA-83	SOLAR CELL AND METHOD OF MAKING SAME	USA	5/27/92	07/889,121	6/14/94	5,320,684
MTA-87 CON	METHOD FOR FORMING DIFFUSION JUNCTIONS IN SOLAR CELL SUBSTRATES	USA	8/7/92	07/926,963	12/14/93	5,270,248
MTA-87 PCT AUSTRALIA	METHOD AND APPARATUS FOR FORMING DIFFUSION JUNCTIONS IN SOLAR CELL SUBSTRATES	Australia	9/20/91	87684/91	3/21/94	644025
MTA-87 AUSTRALIA DIV	APPARATUS FOR FORMING DIFFUSION JUNCTIONS IN SOLAR CELL SUBSTRATES	Australia	11/4/93	50440/93	3/7/95	654785
MTA-87 PCT EUROPE	METHOD AND APPARTUS FOR FORMING DIFFUSION JUNCTIONS IN SOLAR CELL SUBSTRATES	Europe	9/20/91	91918988.6	3/19/97	0506926
MTA-87 CON PCT EUROPE/GERMANY	METHOD FOR FORMING DIFFUSION JUNCTIONS IN SOLAR CELL SUBSTRATES	Germany			3/19/97	69125268.8-08
MTA-87 CON PCT EUROPE/GREAT BRITAIN	METHOD FOR FORMING DIFFUSION JUNCTIONS IN SOLAR CELL SUBSTRATES	Great Britain			3/19/97	0506926
MTA-87 SOUTH AFRICA	METHOD AND APPARATUS FOR FORMING DIFFUSION JUNCTIONS IN SOLAR CELL SUBSTRATES	South Africa	9/26/91	91/7719	2/26/92	91/7719
MTA-87 CHINA	METHOD FOR FORMING DIFFUSION JUNCTIONS IN SOLAR CELL SUBSTRATES	China	10/3/91	91110637.5	12/17/94	91110637.5
MTA-87 CON DIV2	APPARATUS FOR FORMING DIFFUSION JUNCTIONS IN SOLAR CELL SUBSTRATES	USA	5/26/95	08/451,718	6/18/96	5,527,389
MTA-88	METHOD FOR FORMING CONTACTS	USA	3/7/91	07/666,334	9/29/92	5,151,377

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MTA-88 PCT AUSTRALIA	METHOD AND APPARATUS FOR FORMING CONTACTS	Australia	2/13/92	15731/92	8/9/94	648406
MTA-88 PCT EUROPE	METHOD AND APPARATUS FOR FORMING CONTACTS	Europe	2/13/92	92908794.8	6/4/97	0528027
MTA-88 PCT EUROPE/GERMANY	METHOD AND APPARATUS FOR FORMING CONTACTS	Germany			6/4/97	69220151.3-08
MTA-88 PCT EUROPE/GREAT BRITAIN	METHOD AND APPARATUS FOR FORMING CONTACTS	Great Britain			6/4/97	0528027
MTA-88 SOUTH AFRICA	METHOD AND APPARATUS FOR FORMING CONTACTS	South Africa	2/19/92	92/1205	11/25/92	92/1205
MTA-88 PCT EUROPE/SPAIN	METHOD AND APPARATUS FOR FORMING CONTACTS	Spain			6/4/97	0528027
MTA-88 CHINA	METHOD AND APPARATUS FOR FORMING CONTACTS	China	2/21/92	92101977.7	7/28/00	92101977.7
MTA-88 JAPAN	METHOD AND APPARATUS FOR FORMING CONTACTS	Japan	2/13/92	508159/92	8/8/96	2549807
MTA-95	SOLAR CELL MODULES AND METHOD OF MAKING SAME	USA	2/17/94	08/197,929	12/26/95	5478402
MTA-95 PCT EUROPE	METHOD OF FABRICATING SOLAR CELL MODULES	Europe	2/6/95	95910211.2	4/21/04	0694213
MTA-95 PCT EUROPE/GERMANY	METHOD OF FABRICATING SOLAR CELL MODULES	Germany			4/21/04	69532904
MTA-95 PCT EUROPE/GREAT BRITAIN	METHOD OF FABRICATING SOLAR CELL MODULES	Great Britain			4/21/04	0694213
MTA-95 PCT EUROPE/FRANCE	METHOD OF FABRICATING SOLAR CELL MODULES	France			4/21/04	0694213
MTA-95 PCT EUROPE/ITALY	METHOD OF FABRICATING SOLAR CELL MODULES	Italy			4/21/04	0694213
MTA-95 HONG KONG	METHOD OF FABRICATING SOLAR CELLS	Hong Kong	12/28/98	98115743.1	1/14/05	1014400
MTA-97	SOLAR CELL MODULES AND METHOD OF MAKING SAME	USA	12/18/95	08/574,232	3/31/98	5,733,382

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MTA-98	SUSCEPTOR FOR EFG CRYSTAL GROWTH APPARATUS	USA	11/14/94	08/339,357	9/3/96	5,551,977
MTA-99	CONTOURED INNER AFTER-HEATER SHIELD FOR REDUCING STRESS IN GROWING CRYSTALLINE BODIES	USA	11/4/94	08/334,753	9/24/96	5,558,712
MTA-100 (ASE-01)	SOLAR MODULE HAVING REFLECTOR BETWEEN CELLS	USA	4/24/98	09/066,157	11/30/99	5994641
MTA-100 (ASE-01) PCT EUROPE	SOLAR MODULE HAVING REFLECTOR BETWEEN CELLS	Europe	4/16/99	99918623.2		
MTA-100 (ASE-01) PCT HONG KONG	SOLAR MODULE HAVING REFLECTOR BETWEEN CELLS	Hong Kong	9/7/01	01106357.3		
MTA-100 (ASE-01) PCT JAPAN	SOLAR MODULE HAVING REFLECTOR BETWEEN CELLS	Japan	4/16/99	2000-546395	11/12/04	3616568
ASE-03	EFG CRYSTAL GROWTH APPARATUS	USA	3/25/99	09/276,453	10/31/00	6,139,811
ASE-03 PCT AUSTRALIA	EFG CRYSTAL GROWTH APPARATUS	Australia	3/2/00	37179/00	2/20/03	754140
ASE-03 PCT EUROPE	EFG CRYSTAL GROWTH APPARATUS	Europe	3/2/00	00916008.6	6/23/10	1171211
ASE-03 PCT EUROPE/FRANCE	EFG CRYSTAL GROWTH APPARATUS	France			6/23/10	1171211
ASE-03 PCT EUROPE/GERMANY	EFG CRYSTAL GROWTH APPARATUS	Germany			6/23/10	60044579.8-08
ASE-03 PCT EUROPE/GREAT BRITAIN	EFG CRYSTAL GROWTH APPARATUS	Great Britain			6/23/10	1171211
ASE-03 PCT EUROPE/ITALY	EFG CRYSTAL GROWTH APPARATUS	Italy			6/23/10	1171211
ASE-03 PCT EUROPE/THE NETHERLANDS	EFG CRYSTAL GROWTH APPARATUS	The Netherlands			6/23/10	1171211
ASE-03 PCT JAPAN	EFG CRYSTAL GROWTH APPARATUS	Japan	3/2/00	2000-607727	2/2/07	3911126
ASE-03 PCT HONG KONG	EFG CRYSTAL GROWTH APPARATUS	Hong Kong	7/16/02	02105284.2	11/19/10	HK1045273

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ASE-03 PCT INDIA	APPARATUS FOR GROWING A TUBULAR CRYSTALLINE BODY OF A SELECTED MATERIAL BY THE EFG PROCESS	India	3/2/00	IN/PCT/2001/00838/DEL	3/26/08	217402
ASE-04	LASER CUTTING OF SEMICONDUCTOR MATERIALS	USA	7/26/00	09/626,708	4/23/02	6,376,797
ASE-04 PCT EUROPE	LASER CUTTING OF SEMICONDUCTOR MATERIALS	Europe	5/14/01	01935492.7		
ASE-04 PCT AUSTRALIA	LASER CUTTING OF SEMICONDUCTOR MATERIALS	Australia	5/14/01	61583/01	12/11/03	764787
ASE-04 PCT INDIA	LASER CUTTING OF SEMICONDUCTOR MATERIALS	India	5/14/01	IN/PCT/2002/00279/DEL	3/27/08	217538
ASE-04 PCT CHINA	LASER CUTTING OF SEMICONDUCTOR MATERIALS	China	5/14/01	01802185.9	1/19/05	ZL01802185.9
ASE-04 PCT JAPAN	LASER CUTTING OF SEMICONDUCTOR MATERIALS	Japan	5/14/01	2002-513648	1/9/09	4242642
ASE-05	PORTABLE SOLAR MODULE CART	USA	12/3/99	09/453,969	3/13/01	6,201,181
ASE-06	GAS ASSISTED LASER CUTTING OF THIN AND FRAGILE MATERIALS	USA	10/12/00	09/690,161	7/23/02	6,423,928
ASE-06 EUROPE	GAS ASSISTED LASER CUTTING OF THIN AND FRAGILE MATERIALS	Europe	5/22/01	01937818.1		
ASE-06 INDIA	LASER CUTTING APPARATUS AND METHOD THEREOF	India	5/22/01	IN/PCT/2002/00535/DEL	3/28/08	217691
ASE-06 CHINA	GAS ASSISTED LASER CUTTING OF THIN AND FRAGILE MATERIALS	China	5/22/01	01804775.0	10/12/05	ZL01804775.0
ASE-06 HONG KONG	GAS ASSISTED LASER CUTTING OF THIN AND FRAGILE MATERIALS	Hong Kong	8/6/03	03105647.3	3/31/06	HK1053279
ASE-07	EFG CRYSTAL GROWTH APPARATUS AND METHOD	USA	4/4/01	09/826,073	5/13/03	6,562,132
ASE-07 EUROPE	EFG CRYSTAL GROWTH APPARATUS AND METHOD	Europe	12/20/01	01998076.2	10/14/09	1372805

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ASE-07 EUROPE/FRANCE	EFG CRYSTAL GROWTH APPARATUS AND METHOD	France			10/14/09	1372805
ASE-07 EUROPE/GERMANY	EFG CRYSTAL GROWTH APPARATUS AND METHOD	Germany			10/14/09	60140215.4-08
ASE-07 EUROPE/GREAT BRITAIN	EFG CRYSTAL GROWTH APPARATUS AND METHOD	Great Britain			10/14/09	1372805
ASE-07 EUROPE/ITALY	EFG CRYSTAL GROWTH APPARATUS AND METHOD	Italy			10/14/09	1372805
ASE-07 CHINA	EFG CRYSTAL GROWTH APPARATUS AND METHOD	China	12/20/01	01823121.7	8/3/07	ZL01823121.7
ASE-07 HONG KONG	EFG CRYSTAL GROWTH APPARATUS AND METHOD	Hong Kong	8/23/04	04106302.6	5/9/08	HK1063646
ASE-07 JAPAN	EFG CRYSTAL GROWTH APPARATUS AND METHOD	Japan	12/20/01	2002-579081	6/27/08	4147112
ASE-10	PROCESS FOR COATING SILICON SHOT WITH DOPANT FOR ADDITION OF DOPANT IN CRYSTAL GROWTH	USA	5/9/02	10/142,312	5/25/04	6,740,158
ASE-13	SURFACE MODIFICATION OF SILICON NITRIDE FOR THICK FILM SILVER METALLIZATION OF SOLAR CELL	USA	2/13/03	10/365,774	11/9/04	6,815,246
ASE-13 PCT EUROPE	SURFACE MODIFICATION OF SILICON NITRIDE FOR THICK FILM SILVER METALLIZATION OF SOLAR CELL	Europe	1/22/04	04704417.7		
RWESS-1	COATING SILICON PELLETS WITH DOPANT FOR ADDITION OF DOPANT IN CRYSTAL GROWTH	USA	3/4/04	10/793,539	11/14/06	7,135,069

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RWESS-5	APPARATUS FOR MOUNTING PHOTOVOLTAIC POWER GENERATING SYSTEMS ON BUILDINGS	USA	10/5/05	11/243,758	8/18/09	7,574,842
SCHOTT-2	APPARATUS AND METHOD FOR MOUNTING PHOTOVOLTAIC POWER GENERATING SYSTEMS ON BUILDINGS	USA	9/12/02	10/506,145	10/14/08	7,435,897
SCHOTT-3	ROTATING SHADOWBAND PYRANOMETER	USA	6/11/03	10/459,335	2/1/05	6,849,842

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