## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

#### **CONVEYING PARTY DATA**

| Name              | Execution Date |
|-------------------|----------------|
| ROBERT BOSCH GMBH | 04/04/2014     |

#### **RECEIVING PARTY DATA**

| Name:           | SOLAR WORLD INDUSTRIES-THUERINGEN GMBH |
|-----------------|--|
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### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |  |
|---------------------|----------|--|
| Application Number: | 12735751 |  |

#### **CORRESPONDENCE DATA**

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SIGNATURE: /Gerard A. Messina/

DATE SIGNED: 04/04/2014

**Total Attachments: 2** 

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PATENT 502754745 REEL: 032606 FRAME: 0691

### ASSIGNMENT

WHEREAS, ROBERT BOSCH GMBH, having a place of business at POSTFACH 30 02 20, STUTTGART, GERMANY DE-70442, is the exclusive assignee and owner of the entire right, title and interest in and to the patent applications listed on Schedule A attached hereto by virtue of assignments previously recorded in the U.S. Patent and Trademark Office; and

WHEREAS, SOLARWORLD INDUSTRIES-THUERINGEN GMBH, having a place of business at MARTIN-LUTHER-KING-STR. 24, 53175 BONN, GERMANY, is desirous of acquiring the entire right, title and interest in and to the patent applications listed on Schedule A attached hereto;

NOW, therefore, for and in consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ROBERT BOSCH GMBH hereby, without reservations:

Assigns, transfers, and conveys to, SOLARWORLD INDUSTRIESTHUERINGEN GMBH, the entire right, title and interest in and to the patent applications listed on Schedule A below, including all rights to sue for any past infringement of said patent applications, and to any and all other applications for Letters Patent based on said patent applications, including all divisional, renewal, substitute, and continuation applications based in whole or in part upon said patent applications, and any and all Letters Patent, reissues, and extensions of Letters Patent granted for said patent applications, and every priority right that is or may be predicated upon or arise from said patent applications, and said Letters Patent.

IN TESTIMONY WHEREOF, **ROBERT BOSCH GMBH** has hereunto set its hand and seal this 04 day of April, 2014.

ROBERT BOSCH GMBH

BY:

NAME:

ppa. Joachim Bee

ppa. Peter Möldner

TITLE:

Authorized corporate officers

# SCHEDULE A

| U.S. Patent Application No. | Application<br>Date | Title   |
|-----------------------------|---------------------|---|
| 13/389728                   | 7/20/2010           | METHOD AND DEVICE FOR OPERATING A SOLAR CELL ASSEMBLY   |
| 13/640145                   | 4/8/2011            | METHOD FOR PRODUCING A PHOTOVOLTAIC MODULE HAVING BACKSIDE-CONTACTED SEMICONDUCTOR CELLS  |
| 13/640878                   | 10/26/2010          | METHOD FOR PRODUCING A PHOTOVOLTAIC MODULE HAVING BACKSIDE-CONTACTED SEMICONDUCTOR CELLS, AND PHOTOVOLTAIC MODULE   |
| 12/735751                   | 2/11/2009           | METHOD FOR PRODUCING MONOCRYSTALLINE N-<br>SILICON SOLAR CELLS, AS WELL AS A SOLAR CELL<br>PRODUCED ACCORDING TO SUCH A METHOD  |
| 12/990962                   | 5/5/2009            | METHOD FOR PRODUCING A MONOCRYSTALLINE SOLAR CELL   |
| 13/259835                   | 3/26/2010           | METHOD FOR PRODUCING SOLAR CELLS HAVING SELECTIVE EMITTER   |
| 13/381263                   | 5/19/2010           | METHOD FOR PRODUCING A FOIL-LIKE ELECTRICAL CONNECTOR FOR SOLAR CELLS, CONNECTING ELEMENT PRODUCED ACCORDING TO SAID METHOD, AND METHOD FOR ELECTRICALLY CONNECTING AT LEAST TWO SOLAR CELLS TO FORM A SOLAR MODULE |
| 13/640165                   | 2/16/2011           | METHOD FOR PRODUCING A SOLAR CELL   |
| 13/642099                   | 2/21/2011           | METHOD FOR MANUFACTURING A SOLAR CELL AND A SOLAR CELL MANUFACTURED ACCORDING TO THIS METHOD  |
| 13/643648                   | 3/1/2011            | SOLAR CELL  |
| 14/009006                   | 2/23/2012           | METHOD FOR PRODUCING A SOLAR CELL   |
| 13/420284                   | 3/14/2012           | METHOD FOR OPERATING A VACUUM COATING APPARATUS   |
| 13/491295                   | 6/7/2012            | SOLAR MODULE AND PHOTOVOLTAIC ARRAY   |
| 13/491340                   | 6/7/2012            | SOLAR MODULE AND PHOTOVOLTAIC ARRAY   |

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RECORDED: 04/04/2014

PATENT REEL: 032606 FRAME: 0693