

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4966439

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| ZHENGYUE XIA | 04/24/2018 |
| JIE XU | 04/24/2018 |
| XINCHUN YAN | 04/24/2018 |
| MINJIE ZHU | 04/24/2018 |
| GUOQIANG XING | 04/24/2018 |

RECEIVING PARTY DATA

| | |
|------------------------|---|
| Name: | CSI CELLS CO., LTD. |
| Street Address: | NO.199 LUSHAN ROAD, SUZHOU NEW DISTRICT |
| City: | SUZHOU JIANGSU 215129 |
| State/Country: | CHINA |
| Name: | CANADIAN SOLAR MANUFACTURING (CHANGSHU) INC. |
| Street Address: | NO.2 CHANGSHENG ROAD, XINZHUANG INDUSTRY PARK |
| City: | CHANGSHU, SUZHOU JIANGSU 215562 |
| State/Country: | CHINA |
| Name: | CSI SOLAR POWER GROUP CO., LTD. |
| Street Address: | NO.199 LUSHAN ROAD, SUZHOU NEW DISTRICT |
| City: | SUZHOU JIANGSU 215129 |
| State/Country: | CHINA |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------------------|----------|
| Application Number: | 29647994 |

CORRESPONDENCE DATA

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PATENT

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|---|------------------------|
| Address Line 4: | LATHAM, NEW YORK 12110 |
| ATTORNEY DOCKET NUMBER: | BEYOND.53269-NY |
| NAME OF SUBMITTER: | JASON A. MURPHY |
| SIGNATURE: | /JASON A. MURPHY/ |
| DATE SIGNED: | 05/17/2018 |
| Total Attachments: 2 source=53269_Signed_Assignment#page1.tif source=53269_Signed_Assignment#page2.tif | |

ASSIGNMENT OF INVENTION

WHEREAS, We, XIA, Zhengyue, XU, Jie, YAN, Xinchun, ZHU, Minjie, XING, Guoqiang (the "Assignors"), have made an invention entitled

SOLAR PANEL

filed as US Patent Application No. _____ on _____.

WHEREAS, CSI cells Co., Ltd. having an address at No.199 Lushan Road Suzhou New District, Suzhou Jiangsu 215129, China (the "Assignee"), Canadian Solar Manufacturing (Changshu) Inc. having an address at No.2 Changsheng Road, Xinzhuang Industry Park, Changshu, Suzhou Jiangsu 215562, China (the "Assignee"), and CSI Solar Power Group Co., Ltd. having an address at No.199 Lushan Road Suzhou New District, Suzhou Jiangsu 215129, China (the "Assignee") is desirous of acquiring the entire right, title and interest in and to the aforesaid invention, including any tangible materials embodied in or encompassed by the invention, and any improvements thereon, (the "Invention") and in and to applications for Letters Patent thereon in the United States, its territories and possessions ("United States") and all foreign countries, including rights to claim priority, to any provisional applications, and in and to any Letters Patent of the United States or any foreign country which may be granted therefor, including any and all reissues, divisions, continuations, continuations-in-part, renewals, substitutes or extensions thereof (the "Rights");

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, Assignors have sold, assigned, transferred and conveyed, and do hereby sell, assign, transfer and convey to Assignee, its successors and assigns, the entire right, title and interest in and to the aforesaid Invention and Rights. The aforesaid assignment includes the right in and to all income, royalties, damages and payments now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale and assignment had not been made;

AND Assignors hereby authorize and request the appropriate governmental officials to issue any and all such United States or foreign Letters Patent under said invention, or resulting from any of said applications thereof, to the Assignee, as the assignee of the entire right, title and interest in and to the same;

AND Assignors hereby represent, warrant and covenant that they have the full right to convey the entire interest herein assigned, that they have not executed and will not execute any instrument or assignment in conflict herewith, and that the rights assigned herein are not otherwise encumbered by any grant, license or right;

AND Assignors further covenant and agree that Assignors will at any time upon request make, execute and deliver without further compensation, any and all other instruments in writing, including further applications, papers, affidavits, powers of attorney, assignments, and other documents, and do all lawful acts and things, which, in the opinion of counsel for said Assignee, its successors and assigns, may in any country be required or necessary more effectively to secure to and vest in said Assignee, its successors and assigns the entire right, title and interest in and to said Invention and Rights hereby sold, assigned, transferred and conveyed, and that Assignors will sign any applications for reissue, division, continuation, continuation-in-part, renewal, substitute or extension of said application for Letters Patent or any resulting Letters Patent;

AND Assignors further covenant and agree that Assignors will at any time upon request communicate to the Assignee, its successors, assigns or other legal representatives any facts relating to the aforesaid invention known to them, and will testify as to the same in any interference, litigation, mediation, arbitration or other proceeding when requested to do so.

In witness whereof, executed by the undersigned on the dates below.

XIA, Zhengyue
XIA, Zhengyue

Date: April 24, 2018

XU, Jie
XU, Jie

Date: April 24, 2018

YAN, Xinchun
YAN, Xinchun

Date: April 24, 2018

ZHU, Minjie
ZHU, Minjie

Date: April 24, 2018

XING, Guoqiang
XING, Guoqiang

Date: April 24, 2018