

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | | | |
|---|-------------------------------|---------------|-------------------------|---------------------|-------------------------------|------------------|------------|-------------------|------------|-----------------|------------|----------------|------------|-------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hiroshi SEGAWA</td> <td>09/03/2013</td> </tr> <tr> <td>Takumi KINOSHITA</td> <td>09/03/2013</td> </tr> <tr> <td>Jun-ichi FUJISAWA</td> <td>09/03/2013</td> </tr> <tr> <td>Jotaro NAKAZAKI</td> <td>09/03/2013</td> </tr> <tr> <td>Satoshi UCHIDA</td> <td>09/03/2013</td> </tr> <tr> <td>Takaya KUBO</td> <td>09/03/2013</td> </tr> </tbody> </table> | | Name | Execution Date | Hiroshi SEGAWA | 09/03/2013 | Takumi KINOSHITA | 09/03/2013 | Jun-ichi FUJISAWA | 09/03/2013 | Jotaro NAKAZAKI | 09/03/2013 | Satoshi UCHIDA | 09/03/2013 | Takaya KUBO | 09/03/2013 |
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| Hiroshi SEGAWA | 09/03/2013 | | | | | | | | | | | | | | |
| Takumi KINOSHITA | 09/03/2013 | | | | | | | | | | | | | | |
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| RECEIVING PARTY DATA | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>THE UNIVERSITY OF TOKYO</td> </tr> <tr> <td>Street Address:</td> <td>3-1, Hongo 7-chome, Bunkyo-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>113-8654</td> </tr> </table> | | Name: | THE UNIVERSITY OF TOKYO | Street Address: | 3-1, Hongo 7-chome, Bunkyo-ku | City: | Tokyo | State/Country: | JAPAN | Postal Code: | 113-8654 | | | | |
| Name: | THE UNIVERSITY OF TOKYO | | | | | | | | | | | | | | |
| Street Address: | 3-1, Hongo 7-chome, Bunkyo-ku | | | | | | | | | | | | | | |
| City: | Tokyo | | | | | | | | | | | | | | |
| State/Country: | JAPAN | | | | | | | | | | | | | | |
| Postal Code: | 113-8654 | | | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14003056</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 14003056 | | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | | | |
| Application Number: | 14003056 | | | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | | | |
| <p>Fax Number: 7037161180 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 703-716-1191 Email: gbpatent@gbpatent.com Correspondent Name: GREENBLUM & BERNSTEIN, P.L.C. Address Line 1: 1950 ROLAND CLARKE PLACE Address Line 4: RESTON, VIRGINIA 20191</p> | | | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | P44417 | | | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Daniel B. Moon | | | | | | | | | | | | | | |

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| Signature: | /Daniel B. Moon/ |
| Date: | 09/04/2013 |
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ASSIGNMENT

WHEREAS, **Hiroshi SEGAWA**, a citizen of JAPAN, whose post office address is c/o THE UNIVERSITY OF TOKYO, 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo 113-8654 JAPAN, **Takumi KINOSHITA**, a citizen of JAPAN, whose post office address is c/o THE UNIVERSITY OF TOKYO, 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo 113-8654 JAPAN, **Jun-ichi FUJISAWA**, a citizen of JAPAN, whose post office address is c/o THE UNIVERSITY OF TOKYO, 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo 113-8654 JAPAN, **Jotaro NAKAZAKI**, a citizen of JAPAN, whose post office address is c/o THE UNIVERSITY OF TOKYO, 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo 113-8654 JAPAN, **Satoshi UCHIDA**, a citizen of JAPAN, whose post office address is c/o THE UNIVERSITY OF TOKYO, 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo 113-8654 JAPAN, and **Takaya KUBO**, a citizen of JAPAN, whose post office address is c/o THE UNIVERSITY OF TOKYO, 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo 113-8654 JAPAN hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

**PIGMENT FOR PHOTOELECTRIC CONVERTER, AND PHOTOELECTRIC
CONVERSION FILM, ELECTRODE, AND SOLAR CELL USING SAME**

for which they have executed, on the same date as this assignment, an application for Letters Patent for the United States to be filed in the United States Patent and Trademark Office, which Application is a National Stage of International Application No. PCT/JP2012/055639, filed March 6, 2012.

If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request any one of the practitioners of record in this application associated with Customer No. **07055** including Neil F. Greenblum, Reg. No. 28,394, Bruce H. Bernstein, Reg. No. 29,027, Arnold Turk, Reg. No. 33,094, James L. Rowland, Reg. No. 32,674, Stephen M. Roylance, Reg. No. 31,296, Leslie J. Paperner, Reg. No. 33,329, William Pieprz, Reg. No. 33,630, Robert W. Mueller, Reg. No. 35,043, William E. Lyddane, Reg. No. 41,568 and William S. Boshnick, Reg. No. 44,550, of the firm Greenblum & Bernstein, P.L.C., whose address is 1950 Roland Clarke Place, Reston, Virginia 20191, to insert here in parenthesis (Application No. _____, filed _____) the filing date and application number of said application when known.

AND WHEREAS, **THE UNIVERSITY OF TOKYO**, a university and existing under the laws of JAPAN, whose post-office address is 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo 113-8654 JAPAN, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations, and prolongations thereof.

NOW, THIS WITNESSETH that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNORS hereby assign, sell and transfer to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor and all rights to sue for past and future infringement thereunder, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations, and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term

or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations, and prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNORS might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNORS hereby agree to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNORS authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed by said ASSIGNORS, on the respective dates indicated below.

First Witness (optional):

Momoko Ihara
(Name) Momoko IHARA

September 3, 2013
(Date)

Hiroshi Segawa
Hiroshi SEGAWA

September 3, 2013
Date

Second Witness (optional):

Satoshi Honda
(Name) Satoshi HONDA

September 3, 2013
(Date)

First Witness (optional):

Momoko Ihara
(Name) Momoko IHARA

September 3, 2013
(Date)

Takumi Kinoshita
Takumi KINOSHITA

September 3, 2013
Date

Second Witness (optional):

Satoshi Honda
(Name) Satoshi HONDA

September 3, 2013
(Date)

First Witness (optional):

Momoko Ihara
(Name) Momoko IHARA

September 3, 2013
(Date)

Jun-ichi Fujisawa
Jun-ichi FUJISAWA

September 3, 2013
Date

Second Witness (optional):

Satoshi Honda
(Name) Satoshi HONDA

September 3, 2013
(Date)

First Witness (optional):

Momoko Ihara
(Name) Momoko IHARA

September 3, 2013
(Date)

Jotaro Nakazaki
Jotaro NAKAZAKI

September 3, 2013
Date

Second Witness (optional):

Satoshi Honda
(Name) Satoshi HONDA

September 3, 2013
(Date)

First Witness (optional):

Momoko Ihara
(Name) Momoko IHARA

September 3, 2013
(Date)

Satoshi UCHIDA
Satoshi Uchida
Date September 3, 2013

Second Witness (optional):

Satoshi Honda
(Name) Satoshi HONDA

September 3, 2013
(Date)

First Witness (optional):

Momoko Ihara
(Name) Momoko IHARA

September 3, 2013
(Date)

Takaya Kubo
Takaya KUBO

September 3, 2013
Date

Second Witness (optional):

Satoshi Honda
(Name) Satoshi HONDA

September 3, 2013
(Date)