

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| 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>Kwang-Soon Ahn</td><td>04/19/2005</td></tr><tr><td>Ji-Won Lee</td><td>04/19/2005</td></tr><tr><td>Wha-Sup Lee</td><td>04/19/2005</td></tr><tr><td>Jae-Man Choi</td><td>04/19/2005</td></tr><tr><td>Byong-Cheol Shin</td><td>04/19/2005</td></tr><tr><td>Joung-Won Park</td><td>04/19/2005</td></tr></tbody></table> | Name | Execution Date | Kwang-Soon Ahn | 04/19/2005 | Ji-Won Lee | 04/19/2005 | Wha-Sup Lee | 04/19/2005 | Jae-Man Choi | 04/19/2005 | Byong-Cheol Shin | 04/19/2005 | Joung-Won Park | 04/19/2005 | |
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| Byong-Cheol Shin | 04/19/2005 | | | | | | | | | | | | | | |
| Joung-Won Park | 04/19/2005 | | | | | | | | | | | | | | |
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| Name: | Samsung SDI Co., Ltd. | | | | | | | | | | | | | | |
| Street Address: | 575, Shin-dong, Yeongtong-gu | | | | | | | | | | | | | | |
| City: | Suwon-si, Gyeonggi-do | | | | | | | | | | | | | | |
| State/Country: | KOREA, REPUBLIC OF | | | | | | | | | | | | | | |
| 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>11111599</td></tr></tbody></table> | Property Type | Number | Application Number: | 11111599 | | | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | | | |
| Application Number: | 11111599 | | | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | | | |
| Fax Number: (626)577-8800 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | | | | | |
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| Email: pto@cph.com | | | | | | | | | | | | | | | |
| Correspondent Name: Christie, Parker & Hale, LLP | | | | | | | | | | | | | | | |
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| NAME OF SUBMITTER: | D. Bruce Prout | | | | | | | | | | | | | | |
| Total Attachments: 1 source=54793assign#page1.tif | | | | | | | | | | | | | | | |

CH \$40.00 11111599

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PATENT
REEL: 016134 FRAME: 0171

Return to:
CHRISTIE, PARKER & HALE
Post Office Box 7068
Pasadena, CA 91109-7068

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned,

(1) Kwang-Soon AHN; Ji-Won LEE; Wha-Sup LEE; Jae-Man CHOI; Byong-Cheol SHIN; Joung-Won PARK

HEREBY SELL(S), ASSIGN(S) AND TRANSFER(S) TO

(2) SAMSUNG SDI CO., LTD.

having a place of business at

(3) 575, Shin-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea

(hereinafter called "ASSIGNEE") the entire right, title and interest in and to any and all improvements which are disclosed in the application for United States Letters Patent entitled

(4) DYE-SENSITIZED SOLAR CELL MODULE

which application was:

(a) executed on (5a): April 19, 2005

(b) filed on (5b): _____

Application No.: _____

(CHRISTIE, PARKER & HALE, LLP, P.O. Box 7068, Pasadena, CA 91109-7068) is hereby authorized to insert in (b) the specified data, when known.

including any and all United States Patents which may be granted on said application, and any and all extensions, divisions, reissues, substitutes, renewals or continuations of said application and patents, and the right to all benefits under all international conventions for the protection of industrial property and applications for said improvements.

It is hereby authorized and requested that the Commissioner of Patents issue any and all of said Letters Patent, when granted, to said ASSIGNEE, its assigns or its successors in interest or its designee.

Upon said consideration, it is further agreed that, when requested, without charge to but at the expense of said ASSIGNEE, the undersigned will execute all divisional, continuing, substitute, renewal, and reissue patent applications; execute all rightful other papers; and generally do everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining patent protection as provided herein.

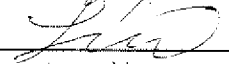
INVENTOR(S)**SIGNATURE****DATE**

Kwang-Soon AHN



April 19, 2005

Ji-Won LEE



April 19, 2005

Wha-Sup LEE



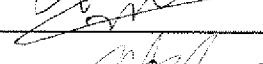
April 19, 2005

Jae-Man CHOI



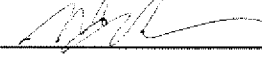
April 19, 2005

Byong-Cheol SHIN



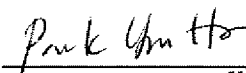
April 19, 2005

Joung-Won PARK

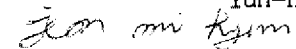


April 19, 2005

WITNESSES:



Yun-Ha PARK



Mi-Hyun JEON

PATENT