

## PATENT ASSIGNMENT COVER SHEET

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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>SUNG KIL HONG</td> <td>11/26/2013</td> </tr> <tr> <td>YUN HWAN KIM</td> <td>11/26/2013</td> </tr> <tr> <td>JUNGOH HUH</td> <td>11/26/2013</td> </tr> <tr> <td>SEONGMI CHO</td> <td>11/26/2013</td> </tr> <tr> <td>SEONG SO KIM</td> <td>11/26/2013</td> </tr> <tr> <td>YONGBUM CHA</td> <td>11/26/2013</td> </tr> </tbody> </table> |  | Name          | Execution Date | SUNG KIL HONG       | 11/26/2013       | YUN HWAN KIM      | 11/26/2013      | JUNGOH HUH | 11/26/2013 | SEONGMI CHO    | 11/26/2013         | SEONG SO KIM | 11/26/2013 | YONGBUM CHA | 11/26/2013 |
| Name  | Execution Date                         |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| SUNG KIL HONG   | 11/26/2013                             |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| YUN HWAN KIM  | 11/26/2013                             |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| JUNGOH HUH  | 11/26/2013                             |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| SEONGMI CHO   | 11/26/2013                             |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| SEONG SO KIM  | 11/26/2013                             |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| YONGBUM CHA   | 11/26/2013                             |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| RECEIVING PARTY DATA  |  |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| <table border="1"> <tr> <td>Name:</td> <td>LG CHEM, LTD.</td> </tr> <tr> <td>Street Address:</td> <td>128, YEOUI-DAERO</td> </tr> <tr> <td>Internal Address:</td> <td>YEONGDEUNGPO-GU</td> </tr> <tr> <td>City:</td> <td>SEOUL</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>150-721</td> </tr> </table>   |  | Name:         | LG CHEM, LTD.  | Street Address:     | 128, YEOUI-DAERO | Internal Address: | YEONGDEUNGPO-GU | City:      | SEOUL      | State/Country: | KOREA, REPUBLIC OF | Postal Code: | 150-721    |             |            |
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| Street Address:   | 128, YEOUI-DAERO                       |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| Internal Address:   | YEONGDEUNGPO-GU                        |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| City:   | SEOUL                                  |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| State/Country:  | KOREA, REPUBLIC OF                     |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| Postal Code:  | 150-721                                |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| 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>14101700</td> </tr> </tbody> </table>   |  | Property Type | Number         | Application Number: | 14101700         |                   |                 |            |            |                |                    |              |            |             |            |
| Property Type   | Number                                 |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| Application Number:   | 14101700                               |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
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| Address Line 2:   | ATTORNEY DOCKET NO. 29137.01367.US00   |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| Address Line 4:   | WASHINGTON, DISTRICT OF COLUMBIA 20006 |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| ATTORNEY DOCKET NUMBER:   | 29137.01367.US00                       |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |
| PATENT  |  |               |                |                     |                  |                   |                 |            |            |                |                    |              |            |             |            |

|  |                           |
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| NAME OF SUBMITTER:   | MARK R. KRESLOFF          |
| Signature:   | /Mark R. Kresloff #42766/ |
| Date:  | 12/10/2013                |
| Total Attachments: 2<br>source=29137_01367_US00_Assignment#page1.tif<br>source=29137_01367_US00_Assignment#page2.tif |                           |

## Assignment of Application

|   |  |  |                 |
|---|--|--|-----------------|
| WHEREAS, I (WE)   | HONG, Sung Kil, KIM, Yun Hwan, HUH, Jungoh, CHO, Seongmi, KIM, Seong So and CHA, Yongbum |  |                 |
|   |  |  | , respectively, |
| have invented certain new and useful improvements in:       |  |  |                 |
| NOVEL COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE USING SAME |  |  |                 |
| for which an application for Letters Patent was executed on |  |  |                 |

|   |               |         |  |        |
|---|---------------|---------|--|--------|
| (Application No.  |               | , Filed |  | ), and |
| WHEREAS,  | LG CHEM, LTD. |         |  |        |
| (hereinafter referred to as "ASSIGNEE") having a place of business at:<br>128, Yeoui-daero, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea |               |         |  |        |
|   |               |         |  |        |

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and

enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP,

Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: November 26, 2013

Hong Sung Kil

(Signature of Inventor)

**HONG, Sung Kil**

Date: November 26, 2013

KIM, Yun Hwan

(Signature of Inventor)

**KIM, Yun Hwan**

Date: November 26, 2013

Huh Jangoh

(Signature of Inventor)

**HUH, Jungoh**

Date: November 26, 2013

Seong

(Signature of Inventor)

**CHO, Seongmi**

Date: November 26, 2013

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