

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>Doo-hwan LEE</td> <td>10/29/2010</td> </tr> <tr> <td>Hyun-chul LEE</td> <td>10/29/2010</td> </tr> <tr> <td>Sang-min JI</td> <td>10/29/2010</td> </tr> <tr> <td>Kyo-sung PARK</td> <td>10/29/2010</td> </tr> <tr> <td>Seung-jae LEE</td> <td>10/29/2010</td> </tr> <tr> <td>Seon-ah JIN</td> <td>10/29/2010</td> </tr> </tbody> </table> | | Name | Execution Date | Doo-hwan LEE | 10/29/2010 | Hyun-chul LEE | 10/29/2010 | Sang-min JI | 10/29/2010 | Kyo-sung PARK | 10/29/2010 | Seung-jae LEE | 10/29/2010 | Seon-ah JIN | 10/29/2010 |
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| Seung-jae LEE | 10/29/2010 | | | | | | | | | | | | | | |
| Seon-ah JIN | 10/29/2010 | | | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | | | |
| Name: | SAMSUNG ELECTRONICS CO., LTD. | | | | | | | | | | | | | | |
| Street Address: | 416, Maetan-dong, Yeongtong-gu | | | | | | | | | | | | | | |
| City: | Suwon-si, Gyeonggi do | | | | | | | | | | | | | | |
| State/Country: | REPUBLIC OF KOREA | | | | | | | | | | | | | | |
| 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>12915959</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 12915959 | | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | | | |
| Application Number: | 12915959 | | | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | | | |
| Fax Number: | (860)286-0115 | | | | | | | | | | | | | | |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | | | | | |
| Phone: | 8602862929 | | | | | | | | | | | | | | |
| Email: | Newings@cantorcolburn.com | | | | | | | | | | | | | | |
| Correspondent Name: | Cantor Colburn LLP | | | | | | | | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | YPL0922US | | | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Grant M. Ehrlich | | | | | | | | | | | | | | |

OP \$40.00 12915959

Total Attachments: 2
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ASSIGNMENT

WHEREAS WE, **Doo-hwan LEE** c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea; **Hyun-chul LEE**

c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea; **Sang-min JI** c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea; **Kyo-sung PARK**

c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea; **Seung-jae LEE** c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea; and **Seon-ah JIN** c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea (hereinafter collectively referred to as the "ASSIGNORS"), have invented certain new and useful improvements in:

MESOPOROUS OXIDE-CATALYST COMPLEX AND METHOD OF PREPARING THE MESOPOROUS OXIDE-CATALYST COMPLEX

(hereinafter referred to as the "INVENTION") which claims priority to Korean Application No. 10-2009-0104427, filed on 30 October 2009; and for which we are about to file an application for a United States Patent (hereinafter collectively referred to as the "APPLICATIONS");

AND WHEREAS, **SAMSUNG ELECTRONICS CO., LTD.** (hereinafter referred to as "ASSIGNEE"), a corporation organized and existing under the laws of the Country of KOREA, having a place of business at **416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea**, is desirous of acquiring an interest in any and all countries, in and to the INVENTION, the APPLICATIONS, and any and all Patents to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, we, the ASSIGNORS, have assigned and transferred, and hereby assign and transfer unto ASSIGNEE, the entire right, title and interest in and to the INVENTION, the APPLICATIONS, and any and all Patents that may be issued therefrom, in any and all countries, including any and all revivals, refilings, continuations,

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continuations-in-part, divisions and reissues thereof, to ASSIGNEE; and we do hereby agree that we will execute all papers necessary in connection with any and all patent applications when called upon to do so by ASSIGNEE, its successors or assigns, and that we will, at the cost and expense of ASSIGNEE, fully assist and cooperate in all matters in connection with any and all patent applications and Patents issuing thereon.

The undersigned declare that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the APPLICATIONS or any Patents issuing thereon.

Date: October 29, 2010


Doo-hwan LEE


L.S.

Date: October 29, 2010


Hyun-chul LEE

L.S.

Date: October 29, 2010


Sang-min JI

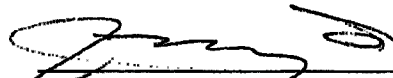
L.S.

Date: October 29, 2010


Kyo-sung PARK

L.S.

Date: October 29, 2010


Seung-jae LEE

L.S.

Date: October 29, 2010


Seon-ah JIN

L.S.