

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>Korea University Industrial & Academic Collaboration Foundation</td> <td>04/15/2013</td> </tr> </tbody> </table> | | Name | Execution Date | Korea University Industrial & Academic Collaboration Foundation | 04/15/2013 | | | | |
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| Korea University Industrial & Academic Collaboration Foundation | 04/15/2013 | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>Intellectual Discovery Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>10F Golden Tower Bldg., 144-17, Samsung-dong, Gangnam-gu</td> </tr> <tr> <td>City:</td> <td>Seoul</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> </table> | | Name: | Intellectual Discovery Co., Ltd. | Street Address: | 10F Golden Tower Bldg., 144-17, Samsung-dong, Gangnam-gu | City: | Seoul | State/Country: | KOREA, REPUBLIC OF |
| Name: | Intellectual Discovery Co., Ltd. | | | | | | | | |
| Street Address: | 10F Golden Tower Bldg., 144-17, Samsung-dong, Gangnam-gu | | | | | | | | |
| City: | Seoul | | | | | | | | |
| 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>12525290</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 12525290 | | | | |
| Property Type | Number | | | | | | | | |
| Application Number: | 12525290 | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | |
| <p>Fax Number: 2024080924 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 202-371-8976 Email: firm@rabinberdo.com Correspondent Name: Rabin & Berdo, P.C. Address Line 1: 1101 14th St. N.W. Address Line 2: Suite 500 Address Line 4: Washington, DISTRICT OF COLUMBIA 20005</p> | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | KYO-154NP(KBK) | | | | | | | | |
| NAME OF SUBMITTER: | Alun L. Palmer | | | | | | | | |
| Signature: | /Alun L. Palmer/ | | | | | | | | |
| Date: | 04/22/2013 | | | | | | | | |
| <p>Total Attachments: 1 source=KYO-154NP-KBK_Assignment#page1.tif</p> | | | | | | | | | |

OP \$40.00 12525290

PATENT

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Korea University Industrial & Academic Collaboration Foundation, hereinafter referred to as the assignor, is the current owner of record, by virtue of an Assignment filed in the U.S. Patent and Trademark Office on July 30, 2009, of a United States Application Serial No. 12/525,290, relating to METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING A SIGNAL IN A COMMUNICATION SYSTEM, said application having been filed in the United States Patent and Trademark Office on July 30, 2009;

AND WHEREAS Intellectual Discovery Co., Ltd. of 10F Golden Tower Bldg., 144-17, Samsung-dong, Gangnam-gu, Seoul, Republic of Korea, hereinafter referred to collectively as the assignee, is desirous of jointly acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

WITNESS:
Signature: _____
Name: _____
Address: _____

ASSIGNOR:
Signature: [Handwritten Signature]
Name: KIM, Sang Suk
Date: 4/15/2013
Title: President

Korea University Industrial & Academic
Collaboration Foundation