

## PATENT ASSIGNMENT COVER SHEET

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT  |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT  |
| <b>CONVEYING PARTY DATA</b>   |   |
| <b>Name</b>   | <b>Execution Date</b>                                 |
| JIE HYUN LEE  | 04/20/2015  |
| HEUK PARK   | 04/21/2015  |
| JYUNG CHAN LEE  | 04/21/2015  |
| SANG SOO LEE  | 04/21/2015  |
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| <b>Name:</b>  | ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE |
| <b>Street Address:</b>  | 218 GAJEONG-RO, YUSEONG-GU                            |
| <b>City:</b>  | DAEJEON   |
| <b>State/Country:</b>   | KOREA, REPUBLIC OF                                    |
| <b>Postal Code:</b>   | 305-700   |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
| <b>Property Type</b>  | <b>Number</b>   |
| <b>Application Number:</b>  | 14694224  |
| <b>CORRESPONDENCE DATA</b>  |   |
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| <b>ATTORNEY DOCKET NUMBER:</b>  | CU-71963 AVL/SL                                       |
| <b>NAME OF SUBMITTER:</b>   | LOREN K. THOMPSON                                     |
| <b>SIGNATURE:</b>   | /Loren K. Thompson/                                   |
| <b>DATE SIGNED:</b>   | 04/23/2015  |
| <b>Total Attachments: 2</b>   |   |
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| source=CU-71963_Assignment#page2.tif  |   |

**UNITED STATES OF AMERICA**  
**ASSIGNMENT**

In consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for the other good and valuable consideration,

**ASSIGNOR(S):**

Jie Hyun LEE of (Hanwha Ggumegreen 1Block, Jijok-dong) 101-3301, 33, Jijokbuk-ro, Yuseong-gu, Daejeon-si, Republic of Korea;

Heuk PARK of (Woosung Apt., Doryong-dong) 102-301, 22, Munji-ro, Yuseong-gu, Daejeon-si, Republic of Korea;

Jyung Chan LEE of (Cityville 1cha Apt., Tanbang-dong) 801, 7, Gyeryong-ro 509beon-gil, Seo-gu, Daejeon-si, Republic of Korea;

Sang Soo LEE of (Haustory 1cha, Munhwa-dong) 103-503, 923, Gyeryong-ro, Jung-gu, Daejeon-si, Republic of Korea;

hereby sells, assigns and transfers to

**ASSIGNEE:**

**ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE**  
218 Gajeong-ro, Yuseong-gu, Daejeon-si, 305-700 Republic of Korea;

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions in and to, any and all improvements which are disclosed in the Application entitled

TITLE: TUNABLE OPTICAL NETWORK UNIT FOR MULTI-WAVELENGTH PASSIVE  
OPTICAL NETWORK SYSTEM AND OPERATING METHOD THEREOF

which application was

- (a) executed by the undersigned on \_\_\_\_\_
- (b) filed as Serial No. \_\_\_\_\_ on \_\_\_\_\_

and, in and to all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, substitute, reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, we have set our hand and seal

Apr. 20, 2015

Date

*Jie Hyun LEE*

Jie Hyun LEE

APR. 21, 2015

Date

*Heuk PARK*

Heuk PARK

Apr. 21, 2015

Date

*Jyung Chan LEE*

Jyung Chan LEE

Apr 21 2015

Date

*Sang Soo Lee*

Sang Soo LEE