

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | | | | | |
|---|---|---------------|---|---------------------|-------------------------------|---------------|------------|----------------|-------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Seung-Hyun CHO</td><td>12/13/2010</td></tr> <tr><td>Jong Hoon LEE</td><td>12/13/2010</td></tr> <tr><td>Eun Gu LEE</td><td>12/13/2010</td></tr> <tr><td>Jie Hyun LEE</td><td>12/13/2010</td></tr> <tr><td>Han-Hyub LEE</td><td>12/13/2010</td></tr> <tr><td>Eui Suk JUNG</td><td>12/13/2010</td></tr> <tr><td>Sang Soo LEE</td><td>12/13/2010</td></tr> </tbody> </table> | | Name | Execution Date | Seung-Hyun CHO | 12/13/2010 | Jong Hoon LEE | 12/13/2010 | Eun Gu LEE | 12/13/2010 | Jie Hyun LEE | 12/13/2010 | Han-Hyub LEE | 12/13/2010 | Eui Suk JUNG | 12/13/2010 | Sang Soo LEE | 12/13/2010 |
| Name | Execution Date | | | | | | | | | | | | | | | | |
| Seung-Hyun CHO | 12/13/2010 | | | | | | | | | | | | | | | | |
| Jong Hoon LEE | 12/13/2010 | | | | | | | | | | | | | | | | |
| Eun Gu LEE | 12/13/2010 | | | | | | | | | | | | | | | | |
| Jie Hyun LEE | 12/13/2010 | | | | | | | | | | | | | | | | |
| Han-Hyub LEE | 12/13/2010 | | | | | | | | | | | | | | | | |
| Eui Suk JUNG | 12/13/2010 | | | | | | | | | | | | | | | | |
| Sang Soo LEE | 12/13/2010 | | | | | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">Name:</td><td>ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE</td></tr> <tr><td>Street Address:</td><td>161, Gajeong-dong, Yuseong-gu</td></tr> <tr><td>City:</td><td>Daejeon</td></tr> <tr><td>State/Country:</td><td>REPUBLIC OF KOREA</td></tr> <tr><td>Postal Code:</td><td>305-350</td></tr> </table> | | Name: | ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE | Street Address: | 161, Gajeong-dong, Yuseong-gu | City: | Daejeon | State/Country: | REPUBLIC OF KOREA | Postal Code: | 305-350 | | | | | | |
| Name: | ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE | | | | | | | | | | | | | | | | |
| Street Address: | 161, Gajeong-dong, Yuseong-gu | | | | | | | | | | | | | | | | |
| City: | Daejeon | | | | | | | | | | | | | | | | |
| State/Country: | REPUBLIC OF KOREA | | | | | | | | | | | | | | | | |
| Postal Code: | 305-350 | | | | | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12971233</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 12971233 | | | | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | | | | | |
| Application Number: | 12971233 | | | | | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | | | | | |
| Fax Number: (202)408-0924 <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 | | | | | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | PAN-104 | | | | | | | | | | | | | | | | |

OP \$40.00 12971233

501382488

PATENT
 REEL: 025516 FRAME: 0786

NAME OF SUBMITTER:

Steven M. Rabin

Total Attachments: 2

source=PAN104_Assignment#page1.tif

source=PAN104_Assignment#page2.tif

1/07

Attorney Reference _____

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS CHO, Seung-Hyun of 703-1103, Banseok Maeul Apt., Banseok-dong, Yuseong-gu, Daejeon, 305-350, Republic of Korea; LEE, JONG HOON of 1-225, Dormitory 1-dong, 236-1, Gajeong-dong, Yuseong-gu, Daejeon, 305-700, Republic of Korea; LEE, Eun Gu of 210-47, Sinseong-dong, Yuseong-gu, Daejeon, 305-805, Republic of Korea; LEE, Jie Hyun of 505-206, Gookhwa Apt., Samcheon-dong, Seo-gu, Daejeon, 302-782, Republic of Korea; LEE, Han-Hyub of 103-407, Daelim Durae Apt., Sinseong-dong, Yuseong-gu, Daejeon, 305-350, Republic of Korea; JUNG, Eui Suk of 161, Gajeong-dong, Yuseong-gu, Daejeon, 305-350, Republic of Korea; LEE, SANG SOO of 602-2101, Banseok-maeul 6-danji Apt., Banseok-dong, Yuseong-gu, Daejeon 305-350, Republic of Korea, hereinafter referred to collectively as the assignor, has invented a certain improvement relating to

WAVELENGTH TUNABLE LIGHT SOURCE,

[X] the inventor(s) declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

[] said application having been filed in the United States Patent and Trademark Office on

_____, authorization being hereby given to my attorneys, Steven M. Rabin, Robert H. Berdo, Jr., Phillip G. Avruch, and Allen Wood of RABIN & BERDO, P.C., 1101 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (Application Serial No. _____) the application serial number of said application when known;

[] the specification of which was filed under the Patent Cooperation Treaty on _____, Serial No. _____, the United States of America being designated.

AND WHEREAS ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE of 161, Gajeong-dong, Yuseong-gu, Daejeon 305-350, Republic of Korea, hereinafter referred to as the assignee, is desirous of 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.

RABIN & BERDO, P.C., Washington, D.C.

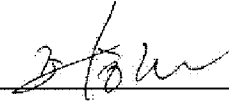
ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

Page 2 of 2

EXECUTED, this 13th day of December, 2010**WITNESSE:**

Signature: _____

Name: _____

ASSIGNOR:Signature Name: CHO, Seung-Hyun**WITNESSE:**

Signature: _____

Name: _____

ASSIGNOR:Signature Name: LEE, JONG HOON**WITNESSE:**


Signature: _____

Name: _____

ASSIGNOR:Signature Name: LEE, Eun Gu**WITNESSE:**


Signature: _____

Name: _____

ASSIGNOR:Signature Name: LEE, Jie Hyun**WITNESSE:**

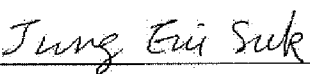
Signature: _____

Name: _____

ASSIGNOR:Signature Name: LEE, Han-Hyub**WITNESSE:**

Signature: _____

Name: _____

ASSIGNOR:Signature Name: JUNG, Eui Suk**WITNESSE:**

Signature: _____

Name: _____

ASSIGNOR:Signature Name: LEE, SANG SOO

RABIN & BERDO, P.C., Washington, D.C.