

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
<b>CONVEYING PARTY DATA</b>																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Namje KIM</td> <td>01/14/2011</td> </tr> <tr> <td>Kyung Hyun PARK</td> <td>01/14/2011</td> </tr> <tr> <td>Young Ahn LEEM</td> <td>01/14/2011</td> </tr> <tr> <td>Chul-Wook LEE</td> <td>01/14/2011</td> </tr> <tr> <td>Sang-Pil HAN</td> <td>01/14/2011</td> </tr> <tr> <td>Dong-Hun LEE</td> <td>01/14/2011</td> </tr> <tr> <td>Min Yong JEON</td> <td>01/14/2011</td> </tr> </tbody> </table>		Name	Execution Date	Namje KIM	01/14/2011	Kyung Hyun PARK	01/14/2011	Young Ahn LEEM	01/14/2011	Chul-Wook LEE	01/14/2011	Sang-Pil HAN	01/14/2011	Dong-Hun LEE	01/14/2011	Min Yong JEON	01/14/2011
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Min Yong JEON	01/14/2011																
<b>RECEIVING PARTY DATA</b>																	
Name:	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE																
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City:	Daejeon																
State/Country:	REPUBLIC OF KOREA																
Postal Code:	305-700																
<b>PROPERTY NUMBERS Total: 1</b>																	
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13022985</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13022985												
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<b>CORRESPONDENCE DATA</b>																	
Fax Number:	(202)408-0924																
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ATTORNEY DOCKET NUMBER:	KOR 242																

OP \$40.00 13022985

**501437085**

**PATENT**  
**REEL: 025802 FRAME: 0010**

NAME OF SUBMITTER:

Steven M. Rabin

Total Attachments: 3

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Attorney reference .....

Client Reference: IP20100380

**ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT**

**WHEREAS** \_\_\_\_\_, hereinafter referred to collectively as the assignor, has invented a certain improvement relating to DUAL MODE SEMICONDUCTOR LASER AND TERAHERTZ WAVE APPARATUS USING THE SAME

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., Allen Wood, Alun L. Palmer, and Phillip G. Avruch of RABIN & BERDO, P.C., 1101 14<sup>th</sup> Street, N.W., Washington, D.C. 20005, to insert here in parentheses (\_\_\_\_\_) the application serial number of said application when known;

said application having been 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 305-700, 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.

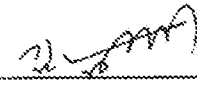
**AND** said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this 14 day of Jan, 2011.

WITNESSES:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature:  \_\_\_\_\_  
Name: KIM, Namje

WITNESSES:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Attorney Reference \_\_\_\_\_

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

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Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

ASSIGNOR:

Signature: *Park*

Name: PARK, Kyung Hyun

WITNESSES:

Signature: \_\_\_\_\_

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Signature: \_\_\_\_\_

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ASSIGNOR:

Signature: *Young Ahn*

Name: LEEM, Young Ahn

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WITNESSES:

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ASSIGNOR:

Signature: *Lee Chul Wook*

Name: LEE, Chul-Wook

WITNESSES:

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Attorney Reference \_\_\_\_\_

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WITNESSES:

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Name: \_\_\_\_\_

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ASSIGNOR:

Signature: *Sangpil Han*

Name: HAN, Sang-Pil

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ASSIGNOR:

Signature: *[Signature]*

Name: LEE, Dong-Hun

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WITNESSES:

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

ASSIGNOR:

Signature: *Min gong Jeon*

Name: JEON, Min Yong

WITNESSES:

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_