

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>Young-Tak HAN</td><td>11/02/2009</td></tr><tr><td>Sang Ho PARK</td><td>11/02/2009</td></tr><tr><td>Dong-Hun LEE</td><td>11/02/2009</td></tr><tr><td>Jang Uk SHIN</td><td>11/02/2009</td></tr><tr><td>Sang-Pil HAN</td><td>11/02/2009</td></tr><tr><td>Yongsoon BAEK</td><td>11/02/2009</td></tr></tbody></table>		Name	Execution Date	Young-Tak HAN	11/02/2009	Sang Ho PARK	11/02/2009	Dong-Hun LEE	11/02/2009	Jang Uk SHIN	11/02/2009	Sang-Pil HAN	11/02/2009	Yongsoon BAEK	11/02/2009
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<table border="1"><tr><td>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>305-700</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:	305-700				
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CORRESPONDENCE DATA															
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PATENT
REEL: 023927 FRAME: 0744

OP \$40.00 12704512

NAME OF SUBMITTER:

Steven M. Rabin

Total Attachments: 3

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Attorney reference _____

Client Reference: IP20090508

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS HAN, Young-Tak; PARK, Sang Ho; LEE, Dong-Hun; SHIN, Jang Uk; HAN, Sang-Pil and BAEK, Yongsoon, hereinafter referred to collectively as the assignor, has invented a certain improvement relating to **OPTICAL DEVICES AND METHODS OF FABRICATING THE SAME**

[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., Allen Wood, Alun L. Palmer, and Phillip G. Avruch of RABIN & BERDO, P.C., 1101 14th 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 5th day of November, 2009.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature:  _____

Name: HAN, Young-Tak

WITNESSES:

Signature: _____

Name: _____

Address: _____

PATENT

REEL: 023927 FRAME: 0746

Attorney Reference _____

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

EXECUTED, this 2nd day of November, 2009.

WITNESSES:

Signature: _____

Name: _____

Address: _____

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: [Signature]

Name: PARK, Sang Ho

EXECUTED, this 2nd day of Nov, 2009.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: [Signature]

Name: LEE, Dong-Hun

WITNESSES:

Signature: _____

Name: _____

Address: _____

EXECUTED, this 2nd day of Nov, 2009.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: [Signature]

Name: SHIN, Jang Uk

Signature: _____

Name: _____

Address: _____

Attorney Reference _____

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WITNESSES:

Signature: _____
Name: _____
Address: _____

Signature: _____
Name: _____
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ASSIGNOR:

Signature: Sangpil Han
Name: HAN, Sang-Pil

EXECUTED, this 2nd day of November, 2009.

WITNESSES:

Signature: _____
Name: _____
Address: _____

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: Yongsoon Baek
Name: BAEK, Yongsoon