

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>Dong-Ho KIM</td> <td>10/12/2010</td> </tr> <tr> <td>Jae-Ick CHOI</td> <td>10/12/2010</td> </tr> <tr> <td>Sungtek KAHNG</td> <td>10/10/2010</td> </tr> <tr> <td>Geonho JANG</td> <td>10/10/2010</td> </tr> </tbody> </table>		Name	Execution Date	Dong-Ho KIM	10/12/2010	Jae-Ick CHOI	10/12/2010	Sungtek KAHNG	10/10/2010	Geonho JANG	10/10/2010
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Dong-Ho KIM	10/12/2010										
Jae-Ick CHOI	10/12/2010										
Sungtek KAHNG	10/10/2010										
Geonho JANG	10/10/2010										
RECEIVING PARTY DATA											
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"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12938503</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12938503						
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Application Number:	12938503										
CORRESPONDENCE DATA											
Fax Number:	(202)408-0924										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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Address Line 2:	Suite 500										
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ATTORNEY DOCKET NUMBER:	SHIN-342										
NAME OF SUBMITTER:	Steven M. Rabin										
Total Attachments: 4											

OP \$40.00 12938503

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**PATENT
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ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS : Dong-Ho KIM; Jae-Ick CHOI; Sungtek KAHNG; Geonho JANG

hereinafter referred to collectively as the assignor, has invented a certain improvement relating to
BAND-PASS FILTER BASED ON CRLH RESONATOR AND DUPLEXER 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., 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;

AND WHEREAS ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE of Daejeon, 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 12 day of October, 2010.

WITNESSES:

Signature: 

Name: Chang-Wook LEE

Address: Seoul, Republic of Korea

ASSIGNOR:

Signature: 

Name: Dong-Ho KIM

Applicant Reference No.IP20100084

WITNESSES:

Signature: 

Name: Chang-Wook LEE

Address: Seoul, Republic of Korea

ASSIGNOR:

Signature J. I. Choi

Name: Jae-Ick CHOI

WITNESSES:

Signature: _____

Name: Chang-Wook LEE

Address: Seoul, Republic of Korea

ASSIGNOR:

Signature _____

Name: Sungtek KAHNG

WITNESSES:

Signature: _____

Name: Chang-Wook LEE

Address: Seoul, Republic of Korea

ASSIGNOR:

Signature _____

Name: Geonho JANG

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS : Dong-Ho KIM, Jae-Ick CHOI, Sungeuk KAHNG, Geonho JANG

hereinafter referred to collectively as the assignor, has invented a certain improvement relating to BAND-PASS FILTER BASED ON CRLH RESONATOR AND DUPLEXER USING 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., 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;

AND WHEREAS ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE of Daejeon, 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 10 day of October, 2010.

WITNESSES:

Signature: _____

Name: Chang-Wook LEE

Address: Seoul, Republic of Korea

ASSIGNOR:

Signature _____

Name: Dong-Ho KIM

Applicant Reference No. IP20100084

WITNESSES:

Signature: _____

Name: Chang-Wook LEE

Address: Seoul, Republic of Korea

ASSIGNOR:

Signature _____

Name: Jae-Ick CHOI

WITNESSES:

Signature: _____

Name: Chang-Wook LEE

Address: Seoul, Republic of Korea

ASSIGNOR:

Signature _____

Name: Sunotek KAHNG

WITNESSES:

Signature: _____

Name: Chang-Wook LEE

Address: Seoul, Republic of Korea

ASSIGNOR:

Signature _____

Name: Geonho JANG