

PATENT ASSIGNMENT

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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>Seong Rag KIM</td> <td>06/16/2010</td> </tr> <tr> <td>Junyoung NAM</td> <td>06/16/2010</td> </tr> <tr> <td>Hyun Kyu CHUNG</td> <td>06/16/2010</td> </tr> </tbody> </table>		Name	Execution Date	Seong Rag KIM	06/16/2010	Junyoung NAM	06/16/2010	Hyun Kyu CHUNG	06/16/2010		
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CORRESPONDENCE DATA											
<p>Fax Number: (202)408-0924 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>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</p>											
ATTORNEY DOCKET NUMBER:	MUH-109NP										
NAME OF SUBMITTER:	Steven M. Rabin										
<p>Total Attachments: 2 source=MUH109NP-Assignment#page1.tif</p>											

OP \$40.00 12809056

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PATENT
REEL: 024554 FRAME: 0983

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Seong Rag KIM of Daejeon, Republic of Korea; Junyoung NAM of Daejeon, Republic of Korea; and Hyun Kyu CHUNG of Daejeon, Republic of Korea hereinafter referred to collectively as the assignor, have invented a certain improvement relating to **ITERATIVE ESTIMATOR AND METHOD OF CHANNEL AND NOISE VARIANCE FOR MULTIPLE INPUT MULTIPLE OUTPUT ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEM**

[V] 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. 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 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 16th day of June, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

Signature: _____

Name: _____

Address: _____

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

ASSIGNOR:

Signature Seong Rag Kim

Name: Seong Rag KIM

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Page 2 of 3

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Name: _____

Address: _____

ASSIGNOR:Signature: Junyoung NamName: Junyoung NAM**ASSIGNOR:**Signature: Hyun Kyu ChungName: Hyun Kyu CHUNG