

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>Bong-Su KIM</td><td>07/30/2008</td></tr><tr><td>Woo Jin BYUN</td><td>07/30/2008</td></tr><tr><td>Kwang Seon KIM</td><td>07/30/2008</td></tr><tr><td>Min Soo KANG</td><td>07/30/2008</td></tr><tr><td>Tae Jin CHUNG</td><td>07/30/2008</td></tr><tr><td>Myung Sun SONG</td><td>07/30/2008</td></tr></tbody></table>	Name	Execution Date	Bong-Su KIM	07/30/2008	Woo Jin BYUN	07/30/2008	Kwang Seon KIM	07/30/2008	Min Soo KANG	07/30/2008	Tae Jin CHUNG	07/30/2008	Myung Sun SONG	07/30/2008	
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Myung Sun SONG	07/30/2008														
RECEIVING PARTY DATA															
Name:	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE														
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State/Country:	REPUBLIC OF KOREA														
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>12189066</td></tr></tbody></table>	Property Type	Number	Application Number:	12189066											
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Application Number:	12189066														
CORRESPONDENCE DATA															
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NAME OF SUBMITTER:	Steven M. Rabin - Reg. No. 29,102														

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Total Attachments: 3

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PATENT

REEL: 021365 FRAME: 0086

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS KIM, Bong-Su; BYUN, Woo Jin; KIM, Kwang Seon; KANG, Min Soo; CHUNG, Tae Jin; SONG, Myung Sun hereinafter referred to collectively as the assignor, has invented a certain improvement relating to MIXER AND TRANSCEIVER HAVING THE MIXER

[] 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 161 Gajeong-dong, Yusong-gu, Daejeon-city, 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 30 day of July, 2008

WITNESSES:

Signature: Choi

Name: CHOI, Sung Ock

Address: Koryo Building 1575-1, Seoch-dong
Seocho-gu, Seoul137-875 Republic of Korea

Signature: Yong

Name: YONG, Eun Ju

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ASSIGNOR:

Signature: [Signature]

Name: KIM, Bong-Su

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

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Page 2 of 2

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Name: KANG, Min Soo

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

ASSIGNOR:

Signature: Chung

Name: CHUNG, Tae Jin

ASSIGNOR:

Signature: Myung Sun

Name: SONG, Myung Sun

ASSIGNOR:

Signature: _____

Name: _____