

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Sun-min KIM</td> <td>06/29/2012</td> </tr> <tr> <td>Young-woo LEE</td> <td>06/29/2012</td> </tr> <tr> <td>Yoon-jae LEE</td> <td>06/29/2012</td> </tr> </tbody> </table>	Name	Execution Date	Sun-min KIM	06/29/2012	Young-woo LEE	06/29/2012	Yoon-jae LEE	06/29/2012	
Name	Execution Date								
Sun-min KIM	06/29/2012								
Young-woo LEE	06/29/2012								
Yoon-jae LEE	06/29/2012								
RECEIVING PARTY DATA									
Name:	SAMSUNG ELECTRONICS CO., LTD.								
Street Address:	129, Samsung-ro, Yeongtong-gu, Gyeonggi-do								
City:	Suwon-si								
State/Country:	KOREA, REPUBLIC OF								
Postal Code:	443-742								
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>13561645</td> </tr> </tbody> </table>	Property Type	Number	Application Number:	13561645					
Property Type	Number								
Application Number:	13561645								
CORRESPONDENCE DATA									
Fax Number:	2022937860								
Phone:	202-293-7060								
Email:	sughrue@sughrue.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	SUGHRUE MION, PLLC								
Address Line 1:	2100 PENNSYLVANIA AVENUE, N.W.								
Address Line 2:	SUITE 800								
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20037								
ATTORNEY DOCKET NUMBER:	Q130458								
NAME OF SUBMITTER:	Sachiko Reynolds (Teams Dept.)								
Total Attachments: 1 source=ASSIGNMENT_EXECUTED_AS_FILED#page1.tif									

OP \$40.00 13561645

Assignment

Whereas, We, Sun-min KIM of Yongin-si, Republic of KOREA; Young-woo LEE of Suwon-si, Republic of KOREA; and Yoon-jae LEE of Seoul, Republic of KOREA, respectively, hereinafter called assignors, have invented certain improvements in METHOD AND APPARATUS FOR PROCESSING AUDIO SIGNAL and executed an application for Letters Patent of the United States of America therefor on _____; and

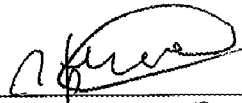
Whereas, SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742, Republic of KOREA, desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number _____ and Confirmation number _____, filed _____) the application number, confirmation number and filing date of said application when known.

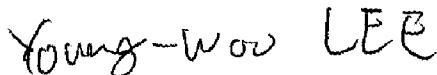
Date:



29 June 2012

s/Sun-min KIM

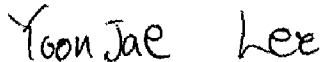
Date:



29 June 2012

s/Young-woo LEE

Date:



29 June 2012

s/Yoon-jae LEE

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)