

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Jong Ha MOON</td> <td>10/14/2009</td> </tr> <tr> <td>Hyen O OH</td> <td>10/14/2009</td> </tr> <tr> <td>Joon Il LEE</td> <td>10/14/2009</td> </tr> <tr> <td>Myung Hoon LEE</td> <td>10/14/2009</td> </tr> <tr> <td>Yang Won JUNG</td> <td>10/19/2009</td> </tr> </tbody> </table>		Name	Execution Date	Jong Ha MOON	10/14/2009	Hyen O OH	10/14/2009	Joon Il LEE	10/14/2009	Myung Hoon LEE	10/14/2009	Yang Won JUNG	10/19/2009
Name	Execution Date												
Jong Ha MOON	10/14/2009												
Hyen O OH	10/14/2009												
Joon Il LEE	10/14/2009												
Myung Hoon LEE	10/14/2009												
Yang Won JUNG	10/19/2009												
RECEIVING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>LG Electronics Inc.</td> </tr> <tr> <td>Street Address:</td> <td>Intellectual Property Center, LG Electronics Inc., 20 Yeouido-dong, Yeongdeungpo-gu</td> </tr> <tr> <td>City:</td> <td>Seoul</td> </tr> <tr> <td>State/Country:</td> <td>REPUBLIC OF KOREA</td> </tr> <tr> <td>Postal Code:</td> <td>150-721</td> </tr> </table>		Name:	LG Electronics Inc.	Street Address:	Intellectual Property Center, LG Electronics Inc., 20 Yeouido-dong, Yeongdeungpo-gu	City:	Seoul	State/Country:	REPUBLIC OF KOREA	Postal Code:	150-721		
Name:	LG Electronics Inc.												
Street Address:	Intellectual Property Center, LG Electronics Inc., 20 Yeouido-dong, Yeongdeungpo-gu												
City:	Seoul												
State/Country:	REPUBLIC OF KOREA												
Postal Code:	150-721												
PROPERTY NUMBERS Total: 1													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12511770</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12511770								
Property Type	Number												
Application Number:	12511770												
CORRESPONDENCE DATA													
Fax Number: (703)205-8050 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 703-205-8000 Email: mary.m.mejia@bskb.com Correspondent Name: Birch, Stewart, Kolasch & Birch, LLP Address Line 1: P.O. 747 Address Line 4: Falls Church, VIRGINIA 22040-0747													
ATTORNEY DOCKET NUMBER:	0465-2284PUS1												
NAME OF SUBMITTER:	Esther H. Chong												

CH \$40.00 12511770

500992228

PATENT
REEL: 023393 FRAME: 0027

Total Attachments: 4

source=20091019Assignment#page1.tif

source=20091019Assignment#page2.tif

source=20091019Assignment#page3.tif

source=20091019Assignment#page4.tif

BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

Application No. 12/511,770

Filed July 29, 2009

Insert Name(s)
of Inventor(s)

*****(Given Name FAMILY NAME (ALL CAPS))*****

WHEREAS, Jong Ha MOON, Hyen O OH, Joon Il LEE, Myung Hoon LEE and Yang Won JUNG (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title
of Invention

A METHOD AND AN APPARATUS FOR PROCESSING AN AUDIO SIGNAL

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application)

Insert Date
of Signing of
Application

on 10/14/2009, 10/14/2009, 10/14/2009, 10/14/2009; and
10/19/2009

Insert Name
of Assignee
Insert Address
of Assignee

WHEREAS, **LG Electronics, Inc.**

of Intellectual Property Center, LG Electronics Inc., 20 Yeouido-dong, Yeongdeungpo-gu, Seoul,
REPUBLIC OF KOREA 150-721

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

CHECK BOX
IF APPROPRIATE

☒ in any foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

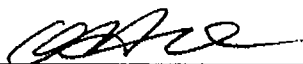
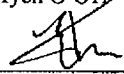
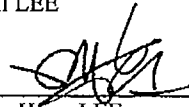
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	<u>14 OCT '09</u>	Name of Inventor	<u></u> (signature) Jong Ha MOON
Date	<u>14 OCT '09</u>	Name of Inventor	<u></u> (signature) Hyen O OH
Date	<u>14 Oct' 2009</u>	Name of Inventor	<u></u> (signature) Joon II LEE
Date	<u>14 Oct. 09</u>	Name of Inventor	<u></u> (signature) Myung Hoon LEE
Date	_____	Name of Inventor	_____ (signature) Yang Won JUNG

BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

Application No. 12/511,770 Filed July 29, 2009

Insert Name(s) of Inventor(s) ***** (Given Name FAMILY NAME (ALL CAPS)) *****

WHEREAS, Jong Ha MOON, Hyen O OH, Joon Il LEE, Myung Hoon LEE and Yang Won JUNG (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title of Invention **A METHOD AND AN APPARATUS FOR PROCESSING AN AUDIO SIGNAL**

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application)

Insert Date of Signing of Application **on 10/14/2009, 10/14/2009, 10/14/2009, 10/14/2009, and 10/19/2009**

Insert Name of Assignee **WHEREAS, LG Electronics, Inc.,**

Insert Address of Assignee **of Intellectual Property Center, LG Electronics Inc., 20 Yeouido-dong, Yeongdeungpo-gu, Seoul, REPUBLIC OF KOREA 150-721**

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

CHECK BOX IF APPROPRIATE ☒ **in any foreign countries.**

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____,	Name of Inventor _____ (signature) Jong Ha MOON
Date _____,	Name of Inventor _____ (signature) Hyen O OH
Date _____,	Name of Inventor _____ (signature) Joon II LEE
Date _____,	Name of Inventor _____ (signature) Myung Hoon LEE
Date <u>19 Oct 2009</u> ,	Name of Inventor _____ (signature) Yang Won JUNG