

## 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>Young-Dae LEE</td><td>06/05/2009</td></tr><tr><td>Sung-Duck CHUN</td><td>06/17/2009</td></tr><tr><td>Sung-Jun PARK</td><td>06/17/2009</td></tr><tr><td>Seung-June YI</td><td>06/17/2009</td></tr></tbody></table>	Name	Execution Date	Young-Dae LEE	06/05/2009	Sung-Duck CHUN	06/17/2009	Sung-Jun PARK	06/17/2009	Seung-June YI	06/17/2009	
Name	Execution Date										
Young-Dae LEE	06/05/2009										
Sung-Duck CHUN	06/17/2009										
Sung-Jun PARK	06/17/2009										
Seung-June YI	06/17/2009										
RECEIVING PARTY DATA											
Name:	LG Electronics Inc.										
Street Address:	20, Yeouido-Dong, Yeongdeungpo-Gu										
City:	Seoul										
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>12523869</td></tr></tbody></table>	Property Type	Number	Application Number:	12523869							
Property Type	Number										
Application Number:	12523869										
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:	oanh.k.dong@bskb.com										
Correspondent Name:	BIRCH, STEWART, KOLASCH & BIRCH, LLP										
Address Line 1:	P. O. BOX 747										
Address Line 4:	FALLS CHURCH, VIRGINIA 22040-0747										
ATTORNEY DOCKET NUMBER:	0630-3883PUS1										
NAME OF SUBMITTER:	Esther H. Chong										
Total Attachments: 4 source=assignment#page1.tif source=assignment#page2.tif											

CH \$40.00 12523869

500917836

PATENT  
REEL: 022996 FRAME: 0383

source=assignment#page3.tif

source=assignment#page4.tif

ATTORNEY DOCKET NO.  
0630-3883PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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

## ASSIGNMENT

Application No. 12/523,869

Filed 7/21/09

Insert Name(s)  
of Inventor(s)

\*\*\*[Given Name FAMILY NAME (ALL CAPS)]\*\*\*

WHEREAS, Young-Dae LEE; Sung-Duck CHUN; Sung-Jun PARK; and Seung-June YI hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title  
of Invention

**METHOD FOR TRANSMITTING AND RECEIVING SYSTEM INFORMATION**

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  
Insert Name  
of Assignee  
Insert Address  
of Assignee

on 05/06/2009 and

WHEREAS, LG Electronics Inc.

of 20, Yeouido-Dong, Yeongdeungpo-Gu, Seoul, Republic of Korea

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>05/06/2009</u>	Name of Inventor <u>YOUNG DAE LEE</u> (signature) Young-Dae LEE
Date _____	Name of Inventor _____ (signature) Song-Duck CHUN
Date _____	Name of Inventor _____ (signature) Sung-Jun PARK
Date _____	Name of Inventor _____ (signature) Seung-June YI
Date _____	Name of Inventor _____ (signature) _____
Date _____	Name of Inventor _____ (signature) _____

ATTORNEY DOCKET NO.  
0630-3883PUS1

**BIRCH, STEWART, KOLASCH & BIRCH, LLP**  
UNITED STATES PATENT RIGHTS, OR  
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS  
**ASSIGNMENT**

Application No. 12/523,869 Filed 7/21/09

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

WHEREAS, Young-Dae LEE; Sung-Duck CHUN; Sung-Jun PARK; and Seung-June YI hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title  
of Invention

**METHOD FOR TRANSMITTING AND RECEIVING SYSTEM INFORMATION**

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 11-06-2009 and

Insert Name  
of Assignee  
Insert Address  
of Assignee

WHEREAS, LG Electronics Inc.

of 20, Yeouido-Dong, Yeongdeungpo-Gu, Seoul, Republic of Korea

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 ☐ in any foreign countries.

CHECK BOX  
IF APPROPRIATE

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) Young-Dae LEE
Date <u>11-06-2009</u> ,	Name of Inventor <u>SUNG DUCK CHUN</u> (signature) Sung-Duck CHUN
Date <u>11-06-2009</u> ,	Name of Inventor <u>Sung Jun Park</u> (signature) Sung-Jun PARK
Date <u>11-06-2009</u> ,	Name of Inventor <u>Seung June Yi</u> (signature) Seung-June YI
Date _____,	Name of Inventor _____ (signature)
Date _____,	Name of Inventor _____ (signature)