502319641 04/22/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ji Won KANG	03/14/2013
Jin Young CHUN	03/14/2013
Su Nam KIM	03/14/2013
Bin Chul IHM	03/11/2013
Sung Ho PARK	03/14/2013

RECEIVING PARTY DATA

Name:	LG ELECTRONICS INC.	
Street Address:	20 Yeouido-dong, Yeongdeungpo-gu	
City:	Seoul	
State/Country:	KOREA, REPUBLIC OF	
Postal Code: 150-721		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13880661

CORRESPONDENCE DATA

Fax Number: 7032058050

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Correspondent Name: Birch Stewart Kolach & Birch, LLP

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Signature:	/kara e crestwell/	PATENT
NAME OF SUBMITTER:	Kara E Crestwell	
ATTORNEY DOCKET NUMBER:	5438-0458PUS1	

502319641 REEL: 030271 FRAME: 0896

OP \$40.00 13880661

Date:	04/22/2013
Total Attachments: 4 source=2013_04_19_ASSIGNMENT_5438-0 source=2013_04_19_ASSIGNMENT_5438-0 source=2013_04_19_ASSIGNMENT_5438-0 source=2013_04_19_ASSIGNMENT_5438-0	0458PUS1#page2.tif 0458PUS1#page3.tif

PATENT REEL: 030271 FRAME: 0897

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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

ASSIGNMENT

Application No.	13/880,661	Filed April 19, 2013
Insert Name(s) of Inventor(s)	***(Give	n Name FAMILY NAME (ALL CAPS))***
or inventor(s)		Von; CHUN, Jin Young; KIM, Su Nam; IHM, Bin Chul and PARK, ated as the undersigned) has (have) invented certain new and useful
Insert Title of Invention	METHOD FOR TRANSM	TTING SIGNAL IN MULTIPLE NODE SYSTEM
of invention		Letters Patent of the United States of America has been executed by the use of a provisional application)
Insert Date	onMa	rch 14 and 11, 2013 ; and
of Signing of Application Insert Name of Assignee	WHEREAS, LG ELECTRO	
Insert Address of Assignee	of 20 Yeouido-dong Yeongo	eungpo-gu Seoul 150-721 Republic of Korea
CHECK BOX IF APPROPRIATE	desirous of acquiring the ent	representatives and assigns (hereinafter designated as the Assignee) is the right, title and interest in and to said invention and in and to any Letters therefor in the United States of America and its.
IF AFFROIRIATE	paid, the receipt of which undersigned has (have) sole transfer unto said Assignee America, its territories, depe any and all Letters Patent(sideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand is hereby acknowledged, and other good and valuable consideration, the lassigned and transferred, and by these presents does sell, assign and the full and exclusive right to the said invention in the United States of indencies and possessions and the entire right, title and interest in and to which may be granted therefor in the United States of America, its possessions, and if the box above is designated, in any and all foreign
	and to any and all divisions term or terms for which the s	, reissues, continuations, conversions and extensions thereof for the ful ame may be granted.
continui		execute all papers necessary in connection with this application and any reissue applications thereof and also to execute separate assignments in

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.

connection with such applications as the Assignee may deem necessary or expedient.

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 _	14th Mar 2013	, Name of Inventor	
_ Date	Mar. 14th, 2013	(signature) KANG, Ji Won	
	14th. Mar. 2013	(signature) CHUN, Jin Young Name of Inventor	
		(signature) KIM, Su Nam	
Date _	21 M. J. 13	Name of Inventor (signature) IHM, Bin Chul	
Date _	16th March - 2013	Name of Inventor (signature) PARK Sung Ho	

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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

ASSIGNMENT

Application No.	Filed April 19, 2013
Insert Name(s) of Inventor(s)	***(Given Name FAMILY NAME (ALL CAPS))***
	WHEREAS, KANG, Ji Won; CHUN, Jin Young; KIM, Su Nam; IHM, Bin Chul and PARK, Sung Ho (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:
Insert Title of Invention	METHOD FOR TRANSMITTING SIGNAL IN MULTIPLE NODE SYSTEM
or invention	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	on March 14 and 11, 2013 ; and
Application Insert Name	WHEREAS, LG ELECTRONICS INC.
of Assignee Insert Address of Assignee	of 20 Yeouido-dong Yeongdeungpo-gu Seoul 150-721 Republic of Korea
СНЕСК ВОХ	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 x in any foreign countries.
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 ing, divisional, conversion or reissue applications thereof and also to execute separate assignments in ion 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

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

Page 1 of 2

and producing evidence and proceeding with such interference.

Industrial Property or similar agreements.

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) KANG, Ji Won
Date		ı	Name of Inventor (signature) CHUN, Jin Young
Date		ı	Name of Inventor (signature) KIM, Su Nam
Date	19 Har20 3		Name of Inventor (signature) IHM, Bin Chul
Date			Name of Inventor (signature) PARK, Sung Ho

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