502056080 09/11/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Suck Chel YANG	06/25/2012
Min Gyu KIM	07/16/2012
Joon Kui AHN	06/25/2012
Dong Youn SEO	06/25/2012

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:	13583837

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

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:	0465-3510PUS1	
NAME OF SUBMITTER:	DAVID A. BILODEAU	

Total Attachments: 4

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> PATENT REEL: 028937 FRAME: 0067

OP \$40 00 13583837



Attorney Docket No. 0465-3510PUS1

KBK No. OPP-TZ-2011-0098-US-00

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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

ASSIGNMENT

Application No.	. 13/583,837	Filed September 10, 2012			
Insert Name(s) of Inventor(s)	***(Given Na	me FAMILY NAME (ALL CAPS))***			
	WHEREAS, YANG, Suck CI (hereinafter designated as the unc	el; KIM, Min Gyu; AHN, Joon Kui and SEO, Dong Youn dersigned) have invented certain new and useful improvements in:			
Insert Title of Invention	METHOD AND DEVICE FOR	ALLOCATING CONTROL CHANNEL			
	for which an application for Let undersigned (except in the case of	ets Patent of the United States of America has been executed by the (**sprovisional-application)			
Insert Date of Signing of	on June 25, 2012 and	July 16, 2012 ; and			
Application Insert Name WHEREAS, <u>LG ELECTRONICS INC.</u> Of Assignee					
nsert Address of Assignee	of 20 Yeouido-dong, Yeongdeun	gpo-gu, Scoul 150-721 Republic of Korca			
THECK BOX	its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignce) 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.				
	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, reis term or terms for which the same it	thes, Continuations, conversions and extensions thereof for the full paypag granted.			
	" of the own of	a provisione:			

Page 1 / 4

्रीर्राक्षके हैं। रहाईक्षके हे लेक्षिक्षित अनुस्तर हो ज्यानामक प्रमुख्य होता vana/श्रास्त्र है। अस्त

Attorney Docket No. 0465-3510PUS1 KBK No. OPP-1Z-2011-0098-US-00

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 light 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	2012, 6, 25	,	Name of Inventor	(signature) YANG, Suck Chel
Date		roby and		(signature) KIM, Min Gyu
Date	2012.6.25		Name of Inventor	(signature) AHN, Joon Kui
Date	2012.6.25	, N	lame of Inventor	(signature) SEO, Dong Youn



BIRCH, STEWART, KOLASCH & BIRCH, LLP

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

ASSIGNMENT

Application No.	13/383,837	Filed	September 10, 2012	
Insert Name(s) of Inventor(s)	***(Given Name FAM	ILY NAME (ALL CAPS)))***	
()	WHEREAS, YANG, Suck Chel; KI (hereinafter designated as the undersigne			
Insert Title	METHOD AND DEVICE FOR ALLOG	CATING CONTROL	CHANNEL	
	for which an application for Letters Pate undersigned (except in the case of a prov		es of America has been executed by the	
Insert Date of Signing of	on June 25, 2012 a	and July 16, 2012	; and	
Application Insert Name WHEREAS, LG ELECTRONICS INC. of Assignee				
Insert Address of Assignee	of 20 Yeouido-dong, Yeongdeungpo-gu,	, Seoul 150-721 Repub	olic of Korea	
CHECK BOX	its heirs, successors, legal representative desirous of acquiring the entire right, title Patent(s) that may be granted therefor in the interpretation of any foreign countries.	e and interest in and to	said invention and in and to any Letters	
II AIT NOI NIAIL	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, c term or terms for which the same may be		ons and extensions thereof for the full	

EHC/mrh

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.

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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) YANG, Suck Chel
Date	2012.7./6	, Name of Inventor	(signature) KIM, Min Gyu
Date		, Name of Inventor	(signature) AHN, Joon Kui
Date		, Name of Inventor	(signature) SEO, Dong Youn

EHC/mrh