PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
Jun Kui AHN	07/19/2011
Min Gyu KIM	10/19/2011
Suck Chel YANG	07/19/2011
Dong Youn SEO	07/19/2011
Jung Hoon LEE	07/19/2011

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13255822

CORRESPONDENCE DATA

Fax Number: (703)205-8050 Phone: 7032058000

Email: mailroom@bskb.com, mussie.beyene@bskb.com

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:	0465-3003PUS1	
NAME OF SUBMITTER:	Esther H. Chong	

PATENT REEL: 027223 FRAME: 0280 13255822

Total Attachments: 6

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PATENT REEL: 027223 FRAME: 0281

0465-3003PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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

ASSIGNMENT

Application 1	No.	13/255,822	Filed	September 9, 2011
Insert Name(s) of Inventor(s)		***(Given Name FAM	IILY NAME (ALL CAPS))**	ж
,,	WHI (hero	EREAS, AHN, Jun Kui, KIM, einafter designated as the unde	, Min Gyu, YANG, Su rsigned) has (have) inv	ck Chel, SEO, Dong Youn and LEE, Jung Hoon ented certain new and useful improvements in:
Insert Title of Invention	MET	THOD AND APPARATUS FO	OR TRANSMITTING	ACK/NACK
	for v unde	which an application for Lettersigned (except in the case of	ers Patent of the Unite a provisional application	d States of America has been executed by the on)
Insert Date of Signing of Application	On _	July 19, 2011 and Octob	er 19, 2011	; and
Application Insert Name of Assignee	WHI	EREAS, LG ELECTRONICS	SINC.	
Insert Address of Assignee	of 20	Yeouido-dong, Yeongdeungp	o-gu, Seoul 150-721, F	Republic of Korea
CHECK BOX IF APPROPRIATE	of ac	eirs, successors, legal represent quiring the entire right, title as may be granted therefor in the n any foreign countries.	nd interest in and to sa	reinafter designated as the Assignce) is desirous id invention and in and to any Letters Patent(s) ca and
	the u transit Amer and a deper any a	ndersigned has (have) sold, a fer unto said Assignee the fu- ica, its territories, dependencial Il Letters Patent(s) which mandencies and possessions, and	ssigned and transferred and exclusive right es and possessions and y be granted therefor a fifthe box above is destinuations, conversions.	n, the receipt of which is hereby acknowledged, d, and by these presents does sell, assign and to the said invention in the United States of I the entire right, title and interest in and to any in the United States of America, its territories, ignated, in any and all foreign countries; and to any and extensions thereof for the full term or

ATTORNEY DOCKET NO. 0465-3003PUS1

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 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 _	2011. 1, (9	Name of Inventor	(signature) AHN, Jun Kui
Date _	,	Name of Inventor	
Date	2011.17.19	Name of Inventor	(signature) KIM, Min Gyu (signature) YANG, Suck Chel
Date	2011, 1, 19,	Name of Inventor	76/
Date	,	Name of Inventor	(signature) SEO, Dong Youn (signature) LEE, Jung Hoon
Date	The later, that the commence the commence of t	Name of Inventor	
			(signature)

Page 2 of 2

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Application l	No.	13/255,822	Filed	September 9, 2011	
Insert Name(s) of Inventor(s)		***(Given Name FAMILY NAME (ALL CAPS))***			
				ck Chel, SEO, Dong Youn and LEE, Jung Hoon vented certain new and useful improvements in:	
Insert Title of Invention	MET	HOD AND APPARATUS	FOR TRANSMITTING	ACK/NACK	
for which an application for undersigned (except in the				ed States of America has been executed by the on)	
Insert Date of Signing of Application	On	July 19, 201	11 and October 19, 201	; and	
insert Name of Assignce	WHE	REAS, L <mark>G ELECTRON</mark> I	CS INC.		
nsert Address of Assignee	of 20	Yeouido-dong, Yeongdeui	ngpo-gu, Seoul 150-721, I	Republic of Korea	
CHECK BOX	of acc		e and interest in and to sa	reinafter designated as the Assignee) is desirous aid invention and in and to any Letters Patent(s) ica and	
	the untransfer Americand all dependence any ar	dersigned has (have) solder unto said Assignee the ca, its territories, depende I Letters Patent(s) which dencies and possessions, a	I, assigned and transferre full and exclusive right noice and possessions and may be granted therefor not if the box above is des continuations, conversion	n, the receipt of which is hereby acknowledged, ed, and by these presents does sell, assign and to the said invention in the United States of the entire right, title and interest in and to any in the United States of America, its territories, signated, in any and all foreign countries; and to ns and extensions thereof for the full term or	

Page 1 of 2

ATTORNEY DOCKET NO. 10FCCM185US02

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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Name of Inventor		
	(signature) AHN, Jun Kui	A
Name of Inventor	kim min que	Emergence of the second
	(signature) KIM, Min Gyti	
Name of Inventor		
	(signature) YANG, Suck Chel	97 (MA) Al (1994) - 1994 (MA) - 1994 (MA) Al (1994) - 1994 (MA)
Name of Inventor		
	(signature) SEO, Dong Youn	The second secon
Name of Inventor		
	(signature) LEE, Jung Hoon	The second secon
Name of Inventor		
	(signature)	
	Name of Inventor Name of Inventor Name of Inventor	(signature) AHN, Jun Kui Name of Inventor (signature) KIM, Min Gyu Name of Inventor (signature) YANG, Suck Chel Name of Inventor (signature) SEO, Dong Youn Name of Inventor (signature) LEE, Jung Hoon Name of Inventor

Page 2 of 2

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Application No.		13/255,822	Filed	September 9, 2011
Insert Name(s) of Inventor(s)		***(Given Name F/	AMILY NAME (ALL CAPS))***	
<i>(1)</i>				c Chel, SEO, Dong Youn and LEE, Jung Hoon nted certain new and useful improvements in:
Insert Title of Invention	MET.	HOD AND APPARATUS I	FOR TRANSMITTING A	CK/NACK
		hich an application for Le signed (except in the case o		States of America has been executed by the
Insert Date of Signing of	On	July 19, 20	11 and October 19, 20	<u>11;</u> and
Application Insert Name of Assignee	WHE	REAS, LG ELECTRONI O	CS INC.	
Insert Address of Assignee	of 20	Yeouido-dong, Yeongdeun	gpo-gu, Seoul 150-721, Re	epublic of Korea
its heirs, successors, legal representatives and assigns (hereinafter do of acquiring the entire right, title and interest in and to said invention that may be granted therefor in the United States of America and Image:		d invention and in and to any Letters Patent(s)		
, ATROMATE	the ur transfe Ameri and al depend any ar	dersigned has (have) sold, er unto said Assignee the ca, its territories, dependen I Letters Patent(s) which nadencies and possessions, and	assigned and transferred full and exclusive right decies and possessions and may be granted therefor in dif the box above is designed continuations, conversion	the receipt of which is hereby acknowledged, I, and by these presents does sell, assign and to the said invention in the United States of the entire right, title and interest in and to any the United States of America, its territories, gnated, in any and all foreign countries; and to s and extensions thereof for the full term or

ATTORNEY DOCK 0465-3003PUS1

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Date	Name of Inventor	
		(signature) AHN, Jun Kui
Date	Name of Inventor	
		(signature) KIM, Min Gyu
Date	Name of Inventor	
		(signature) YANG, Suck Chel
Date	Name of Inventor	11 1000 p
Date 7/19/2011	Name of Inventor	
		(signature) LEE, Jung Hoon
Date ,	Name of Inventor	
		(signature)
BIRCH, STEWART, KOLASCH 8 BIRCH, LLP	P	Page 2 of 2

PATENT REEL: 027223 FRAME: 0287

RECORDED: 11/14/2011