PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Sanghyun KIM	01/07/2013
Jongyeul SUH	01/07/2013
Kwansuk KIM	01/07/2013
Jonnhui LEE	01/07/2013
Jaehee CHUNG	01/07/2013
Hyeonjae LEE	01/07/2013
Jinpil KIM	01/07/2013
Dongwan SAE	01/07/2013
Kyoungsoo MOON	01/07/2013
Aetti JI	01/07/2013
Youngjae SEO	01/07/2013
Kyungho KIM	01/07/2013
Sungok PARK	01/07/2013

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13883600

CORRESPONDENCE DATA

Fax Number: 2024967756

PATENT REEL: 030353 FRAME: 0224

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Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 202.496.7500

Email: MLAIP@MCKENNALONG.COM

Correspondent Name: MCKENNA LONG & ALDRIDGE LLP

Address Line 1: 1900 K STREET, NW

Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20006

ATTORNEY DOCKET NUMBER:	8736.00706.US00
NAME OF SUBMITTER:	Yong S. Choi
Signature:	/Yong S. Choi, #43,324/
Date:	05/06/2013

Total Attachments: 30

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PATENT REEL: 030353 FRAME: 0225

Assignment of Application

WHEREAS,	, I (WE)	Sanghyun KIM; Jong LEE; Jaehee CHUNG SEO; Kyoungsoo MO KIM; Sungok PARK	; Hyeor	ijae LEE; Ji	npil KIM; Do	ngwan
					, respe	ctively,
have invented cert	ain new a	and useful improvement	s in:			
VIDEO	DISPLA	Y DEVICE AND CO	NTROL	METHOD	THEREOF	
for which an appli	cation for	r Letters Patent was exe	cuted o	n		
(Application No.	,	,	Filed), and
WHEREAS,	LG Ele	etronics. Inc.				ı
		ASSIGNEE") having a	·			
20 Yeouido-dong,	Yeongde	eungpo-gu Seoul 150-72	1. Repu	ablic of Kore	ea	

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and

Page 1 of 3

enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

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Date:	2013.1.7	
		(Signature of Inventor) Sanghyun KIM
Date:	2013.1.7	
		(Signature of Inventor) Jongyeul SUH
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David	2013.1.7	
Date:	2013.1.7	(Signature of Inventor)
		Kwansuk KIM
Date:	2013.1.7	
		(Signature of Inventor)
		Joonhui LEE
Date:	2013.1.7	
		(Signature of Inventor) Jachee CHUNG
		Jacinet Chung
Date:	<u>2013.1.7</u>	
		(Signature of Inventor) Hyeonjae LEE
		Try conjuc BEE
Date:	2013.1.7	(Signature of Inventor)
		Jinpil KIM
Date	2012 1 7	
Date:	2013.1.7	(Signature of Inventor)
		Dongwan SEO

Page 2 of 3

Date:	2013.1.7	(Signature of Inventor) Kyoungsoo MOON
Date:	2013.1.7	(Signature of Insentor) Aettie JI
Date:	2013.1.7	(Signature of Inventor) Youngjae SEO
Date:	2013.1.7	(Signature of Inventor) Kyungho KIM
Date:	2013.1.7	(Signature of Inventor) Sungok PARK

McKenna Long & Aldridge LLP Attorneys At Law 1900 K Street, N.W.

Washington, D.C. 20006

Page 3 of 3

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PATENT REEL: 030353 FRAME: 0228

Assignment of Application

WHEREAS	, I (WE)	Sanghyun KIM; Jongyeul SUH; Kwansuk KIM; Joonhui LEE; Jaehee CHUNG; Hyeonjae LEE; Jinpil KIM; Dongwan SEO; Kyoungsoo MOON; Aettie JI; Youngjae SEO; Kyungho KIM; Sungok PARK					
					-	, re	espectively,
have invented cert	ain new a	and useful improvements	in:				
VIDEO	DISPLAY	Y DEVICE AND CON	ITRO	L ME	THOD '	THERE	OF
for which an appli	cation for	r Letters Patent was exec	uted	on			
(Application No.		, I	Filed), and
WHEREAS,	LG Ele	etronies. Inc.					•
(hereinafter referre	ed to as "	ASSIGNEE") having a p	olace o	of bus	iness at:		
20 Yeouido-dong,	Yeongde	eungpo-gu Seoul 150-72	l, Rep	oublic	of Korea	1	

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Date!	2013.1.7	
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Dato <u>:</u>	2013.1.7	(Signature of Inventor) Jongyeul SUH
Dute:	2013.1.7	(Signature of Inventor)
	2012 1 7	Kwansuk KlM
Date:	2013.1.7	(Signature of Inventor) Joonhui LEE
Dale:	2013.1.7	(Signature of Inventor) Juchee CHUNG
Date:	2013.1.7	(Signature of Inventor) Hyeonjae LEE
Dato <u>:</u>	2013.1.7	(Signuture of inventor) Jinpil KIM
Date:	2013.1.7	(Signature of Inventor) Dongwan SEO

Page 2 of 3

D	ocket	No.	•
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Date: 2013.1.7	(Signature of Inventor) Kyoungsoo MOON
Date: 2013.1.7	(Signature of Inventor) Aettie JI
Date: 2013.1.7	(Signature of Inventor) Youngjae SEO
Date: 2013.1.7	(Signature of Inventor) Kyungho KIM
Date: 2013.1.7	(Signature of Inventor) Sungok PARK

McKenna Long & Aldridge LLP

Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

Page 3 of 3

DC:50666407.1

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Assignment of Application

WHEREAS	, I (WE)	Sanghyun KIM; Jongyeul SUH; Kwansuk KIM; Joonhui LEE; Jaehee CHUNG; Hyeonjae LEE; Jinpil KIM; Dongwan SEO; Kyoungsoo MOON; Aettie JI; Youngjae SEO; Kyungho KIM; Sungok PARK				
						, respectively,
have invented cer	tain new a	and useful improvements	in:			J
VIDEO	DISPLAY	Y DEVICE AND CONT	roi	L METHO	OD THE	EREOF
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(Application No.		, Fi	led), and
WHEREAS,	LG Elec	etronies. Inc.				
(hereinafter referre	ed to as "A	ASSIGNEE") having a pl	ace o	f busines	s at:	
20 Yeouido-dong,	Yeongde	ungpo-gu Seoul 150-721,	Rep	ublic of K	Corea	

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		Jachee CHUNG
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		Hyeonjae LEE
Date <u>:</u>	2013.1.7	
		(Signature of Inventor) Jinpil KIM
Date:	2013.1.7	
		(Signature of Inventor) Dongwan SEO

Page 2 of 3

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Date:	2013.1.7	(Signature of Inventor) Kyoungsoo MOON
Date:	2013.1.7	(Signature of Inventor) Aettie JI
Date:	2013.1.7	(Signature of Inventor) Youngjae SEO
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Date:	2013.1.7	(Signature of Inventor) Sungok PARK

McKenna Long & Aldridge LLP Attorneys At Law

Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

Page 3 of 3

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ioonhui.lee/이준휘/10.177.217.50/2012-12-28 18:15

Assignment of Application

WHEREAS	, I (WE)	Sanghyun KIM; Jongyeul SUH; Kwansuk KIM; Joonhui LEE; Jaehee CHUNG; Hyeonjae LEE; Jinpil KIM; Dongwan SEO; Kyoungsoo MOON; Aettie JI; Youngjae SEO; Kyungho KIM; Sungok PARK			
				, respectively,	
have invented cer	ain new a	nd useful improvements in:			
VIDEO DISPLAY DEVICE AND CONTROL METHOD THEREOF					
for which an appli	cation for	Letters Patent was executed o	n		
(Application No.		, Filed), and	
WHEREAS,	LG Electronics. Inc.				
(hereinafter referre	ed to as "A	ASSIGNEE") having a place of	f business at:		
20 Yeouido-dong,	Yeongde	ungpo-gu Seoul 150-721, Repu	ublic of Korea		

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-		(Signature of Inventor)	
		Sanghyun KIM	
			
Date:	2013.1.7		
		(Signature of Inventor)	
		Jongyeul SUH	

Date:	2013.1.7		
		(Signature of Inventor)	1 1
		Kwansuk KIM	· · · · · · · · · · · · · · · · · · ·
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Date:	2013.1.7	(0)	
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		Joonhui LEE	
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Date:	2013.1./	(Signature of Inventor)	
		Jachee CHUNG	
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		Hyeonjae LEE	
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Date:	2013.1.7		
		(Signature of Inventor)	
		Jinpil KIM	
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Date:	2013.1.7		
		(Signature of Inventor)	
		Dongwan SEO	
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Page 2 of 3

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Date:	2013.1.7	(Signature of Inventor) Kyoungsoo MOON
Date:_	2013.1.7	(Signature of Inventor) Aettie JI
Date:	2013.1.7	(Signature of Inventor) Youngjae SEO
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Date:	2013.1.7	(Signature of Inventor) Jachee CHUNG
Date:	2013.1.7	(Signature of Inventor) Hyeonjae LEE
Date <u>:</u>	2013.1.7	(Signature of Inventor) Jinpil KIM
Date:	2013.1.7	(Signature of Inventor) Dongwan SEO

Page 2 of 3

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Date:	2013.1.7	
		(Signature of Inventor) Kyoungsoo MOON
Date:	2013.1.7	(Signature of Inventor)
		Aettie JI
Date:	2013.1.7	(Signature of Inventor) Youngjae SEO
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20 Yequido-dong	Veonade	ungno-mi Seoul 150-721 Reni	ublic of Koree	

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Page 1 of 3

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ioonhui.lee/이준휘/10.177.217.50/2012~12-28 18:15

enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

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Date:	2013.1.7	(Signature of Inventor) Sanghyun KIM
Date <u>:</u>	2013.1.7	(Signature of Inventor) Jongyeul SUH
Date:	2013.1.7	(Signature of Inventor) Kwansuk KIM
Date:	2013.1.7	(Signatur of Inventor) Joonhui LEE
Date:	2013.1.7	(Signature of Inventor) Jaehee CHUNG
Date:	2013.1.7	(Signature of Inventor) Hyeonjae LEE
Date <u>:</u>	2013.1.7	(Signature of Inventor) Jinpil KIM
Date:	2013.1.7	(Signature of Inventor) Dongwan SEO

Page 2 of 3

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Docket	No.

Date:	2013.1.7	(Signature of Inventor) Kyoungsoo MOON
Date:	2013.1.7	(Signature of Inventor) Aettie JI
Date:	2013.1.7	(Signature of Inventor) Youngjae SEO
Date:	2013.1.7	(Signature of Inventor) Kyungho KIM
Date:	2013.1.7	(Signature of Inventor) Sungok PARK

McKenna Long & Aldridge LLP

Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

Page 3 of 3

DC:50666407.1

ioonhui.lee/이준휘/10.177.217.50/2012-12-28 18:15

Assignment of Application

WHEREAS, I (WE)	Sanghyun KIM; Jongyeul SU LEE; Jaehee CHUNG; Hyeo SEO; Kyoungsoo MOON; A KIM; Sungok PARK	njae LEE; Ji	npil KIM; Dongwan
			, respectively,
have invented certain new a	and useful improvements in:		····
VIDEO DISPLA	DEVICE AND CONTROL	METHOD	THEREOF
for which an application for	Letters Patent was executed of	on	

(Application No.	, Filed), and
WHEREAS,	LG Electronics. Inc.	
(hereinafter referre	ed to as "ASSIGNEE") having a place of business at:	
20 Yeouido-dong,	Yeongdeungpo-gu Seoul 150-721, Republic of Korea	

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

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(Signius of Invento) Sangbyun KTM	Augustic of investor)	(Signature of Investor) Kwantsuk KIIM	(Signature of inventor)	(Signame of Investor) Jackee CHUNG	(Spanne of inventor) Hyeonjae L.E.B.	(Signature of Inventor)	Signature of Inventor) Dongwan SEO	Page 2 of 3
Date: 2013.1.7 (3	Date: 2013.1.7 (5	Date: 2013.1.7 8	Date: 2013.1.7	Date: 2013.1.7	Date: 2013.1.7	Date: 2013.1.7 (8)	Date: 2013.1.7 (SS	

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2013.1.7 **MM*** Signature of theorets Kyoungsoo MOON 2013.1.7 (Signature of theorets) Aeftie JI	Signature of Inventor) Younglae SEO Signature of Inventor) Kyungho KIM Signature of Inventor) Signature of Inventor) Sungok PARK	McKenns Long & Aldridge LLP Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006	Page 3 of 3 DC:50666407.1 kvoungsco.moon/配替令/10.177.99.36/2013-01-02 14:19
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PATENT REEL: 030353 FRAME: 0246

Assignment of Application

		KIM; Dongwan
		, respectively,
and useful improvements in:		
Y DEVICE AND CONTROL	METHOD TH	EREOF
Letters Patent was executed o	n	
	LEE; Jachee CHUNG; Hyeon SEO; Kyoungsoo MOON; Ae KIM; Sungok PARK and useful improvements in: Y DEVICE AND CONTROL	LEE; Jaehee CHUNG; Hyeonjae LEE; Jinpil SEO; Kyoungsoo MOON; Aettie JI; Youngjae KIM; Sungok PARK

(Application No.	, Filed), and
WHEREAS,	LG Electronics. Inc.	
(hereinafter referre	ed to as "ASSIGNEE") having a place of business at:	
20 Yeouido-dong,	Yeongdeungpo-gu Seoul 150-721, Republic of Korea	

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Date:	<u>2013.1.7</u>	
_		(Signature of Inventor) Sanghyun KIM
Date <u>:</u>	2013.1.7	(Signature of Inventor) Jongyeul SUH
Date:	2013.1.7	(Signature of Inventor) Kwansuk KIM
Date:	2013.1.7	(Signature of Inventor) Joonhui LEE
Date:	2013.1.7	(Signature of Inventor) Jaehee CHUNG
Date:	2013.1.7	(Signature of Inventor) Hyeonjae LEE
Date <u>:</u>	2013.1.7	(Signature of Inventor) Jinpil KIM
Date:	2013.1.7	(Signature of Inventor) Dongwan SEO

Page 2 of 3

Date:	2013.1.7	(Signature of Inventor) Kyoungsoo MOON
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Date:	2013.1.7	(Signature of Inventor) Youngjae SEO
Date:	2013.1.7	(Signature of Inventor) Kyungho KIM
Date:	2013.1.7	(Signature of Inventor) Sungok PARK

McKenna Long & Aldridge LLP Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

Page 3 of 3

Assignment of Application

WHEREAS, I (WE	Sanghyun KIM; Jongyeul SUH; Kwansuk KIM; Joonhui LEE; Jaehee CHUNG; Hyeonjae LEE; Jinpil KIM; Dongwan SEO; Kyoungsoo MOON; Aettie JI; Youngjae SEO; Kyungho KIM; Sungok PARK	
		, respectively,
have invented certain nev	and useful improvements in:	
VIDEO DISPLA	AY DEVICE AND CONTROL	METHOD THEREOF
for which an application t	for Letters Patent was executed o	n
(Application No.	, Filed), and

(Application No.		, Filed), and
WHEREAS,	LG Electronics. Inc.			
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20 Yeouido-dong,	Yeongdeungpo-gu Seoul 150-	-721, Rep	ublic of Korea	

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Date:	2013.1.7	(Signature of Inventor) Hyeonjae LEE
Date:	2013.1.7	(Signature of Inventor) Jinpil KIM
Date:	2013.1.7	(Signature of Inventor) Dongwan SEO

Page 2 of 3

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Date:	2013.1.7	(Signature of Inventor) Kyoungsoo MOON
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McKenna Long & Aldridge LLP

Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

Page 3 of 3

DC:50666407.1

ioonhui.lee/여준휘/10.177.217.50/2012-12-28 18:15

Assignment of Application

WHEREAS, I (WE)	LEE; Jaehee CHUNG; Hyeon	H; Kwansuk KIM; Joonhui njae LEE; Jinpil KIM; Dongwan ettie JI; Youngjae SEO; Kyungho
		, respectively,
have invented certain new	and useful improvements in:	
VIDEO DISPLA	Y DEVICE AND CONTROL	METHOD THEREOF
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(Application No.	, Filed), and
WHEDEAC LODE	, • T	

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Date:	2013.1.7	(Signature of Inventor)	
		(Signature of Inventor) Kwansuk KIM	
D	2013.1.7		
Date:	2013.1./	(Signature of Inventor)	
		Joonhui LEE	
Date:	2013.1.7		
		(Signature of Inventor) Jaehee CHUNG	
	2012 1 7		
Date:	2013.1.7	(Signature of Inventor)	
		Hyeonjae LEE	
Date:	2013.1.7	· 	
		(Signature of Inventor) Jinpil KIM	
		ompu ixini	
	2012.1		
Date:	2013.1.7	(Signature of Inventor)	
		Dongwan SEO	

Page 2 of 3

Due: 2013.1.7 Segumen of inventor)

Due: 2013.1.7 Segumen of inventor)

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Due: 2013.1.7 (Signature of inventor)

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Nounglae SED

Sungot PARK

Attorneys At Law
1900 K Steach, N.W.
Washington, D.C. 20006

PATENT REEL: 030353 FRAME: 0255

RECORDED: 05/06/2013