PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HYUN WOO LEE	03/20/2014
HYUK MIN SON	03/30/2014
HYE YOUNG CHOI	03/18/2014
SEUNG HEE HAN	04/09/2014
JIN MIN KIM	03/18/2014

RECEIVING PARTY DATA

Name:	LG ELECTRONICS
Street Address:	128, YEOUI-DAERO, YEONGDEUNGPO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	150-721

PROPERTY NUMBERS Total: 1

Property Type	Number			
Application Number:	14353742			

CORRESPONDENCE DATA

Fax Number: (202)496-7756

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US Mail.

Phone: 2024967500

Email: mlaip@mckennalong.com

Correspondent Name: MCKENNA LONG & ALDRIDGE LLP

Address Line 1: 1900 K STREET NW Address Line 2: IP DEPARTMENT

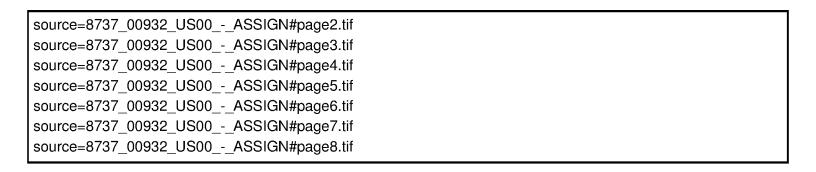
Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20006

ATTORNEY DOCKET NUMBER:	8737.00932.US00
NAME OF SUBMITTER:	MICHAEL I. ANGERT
SIGNATURE:	/Michael I. Angert/
DATE SIGNED:	04/23/2014

Total Attachments: 8

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502780093 PATENT REEL: 032741 FRAME: 0245



PATENT REEL: 032741 FRAME: 0246

WHEREAS,	LEE, Hyun Woo; SON, Hyuk Min; CHOI, Hye Young;				
HAN, Seung Hee and KIM, Jin Min , respective					, respectively,
have invented certain new and useful improvements in:					
METHOD AND APPARATUS FOR TRANSMITTING CONTROL INFORMATION THROUGH UPLINK					
for which an appli	cation for	Letters Patent was exe	cuted on		
(Application No.		,	Filed), and
WHEREAS,	LG ELI	ECTRONICS INC.			
(hereinafter referre	ed to as "A	ASSIGNEE") having a	place of l	ousiness at:	
20 Yeouido-dong,	Yeongde	ungpo-gu, Seoul 150-7	21, Korea	ı	

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

Page 1 of 2

12FCCM678US02

The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: March 20, 2014	(Signature of Inventor)
,	LEE, Hyun Woo
Date:)
	(Signature of Inventor) SON, Hyuk Min
Date:	
	(Signature of Inventor) CHOI, Hye Young
Date:	
	(Signature of Inventor) HAN, Seung Hee
Date:	
	(Signature of Inventor) KIM, Jin Min

McKenna Long & Aldridge LLP

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

Page 2 of 2

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HAN, Seung Hee and KIM, Jin Min , respective					, respectively,
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METHO		APPARATUS FOR TR FORMATION THROU			TROL
for which an appli	cation for	Letters Patent was execu	ted on		
(Application No.		, Fi	led), and
WHEREAS,	LG ELI	ECTRONICS INC.			
(hereinafter referre	ed to as "A	ASSIGNEE") having a pl	ace of b	ousiness at:	
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Date:		
	(Signature of Inventor)	
	LEE, Hyun Woo	
Date: 294-3.30.		
	(Signature of Inventor)	···
	SON, Hyuk Min	
Date:		
	(Signature of Inventor)	
	CHOI, Hye Young	
Date:		
	(Signature of Inventor)	
	HAN, Seung Hee	-
Date:		
	(Signature of Inventor)	
	KIM, Jin Min	

McKenna Long & Aldridge LLP

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

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HAN, Seung Hee	HAN, Seung Hee and KIM, Jin Min , respectively					
have invented cert	have invented certain new and useful improvements in:					
METHO	METHOD AND APPARATUS FOR TRANSMITTING CONTROL INFORMATION THROUGH UPLINK					
for which an appli-	cation for	Letters Patent was executed o	on			
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Date:	
	(Signature of Inventor)
	LEE, Hyun Woo
	
Date:	
	(Signature of Inventor)
	SON, Hyuk Min
0-14 02 10	
Date: 2014.03.18	$-(\Lambda n)$
	(Signature of Inventor)
	CHOI, Hye Young
	, ,
D.:	
Date:	
	(Signature of Inventor)
	HAN, Seung Hee
0	
Date: 2014. 3. H	Y MAT
Date.	(0:
	(Signature of Inventor)
	KIM. Jin Min

McKenna Long & Aldridge LLP

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

WHEREAS,	EAS, I (WE) LEE, Hyun Woo; SON, Hyuk Min; CHOI, Hye Young;					
HAN, Seung Hee and KIM, Jin Min			, respectively,			
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МЕТНО	METHOD AND APPARATUS FOR TRANSMITTING CONTROL INFORMATION THROUGH UPLINK					
for which an applic	cation for	Letters Patent was exe	cuted on			
(Application No.		,	Filed), and	
WHEREAS,	LG ELI	ECTRONICS INC.				
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Docket No.:

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Date:		
	(Signature of Inventor) LEE, Hyun Woo	
Date;		
	(Signature of Inventor) SON, Hyuk Min	
Date:		
	(Signature of Inventor) CHOI, Hye Young	
Date: 04/69/14		
	(Signature of Inventor) HAN, Seung Hee	
Date:	·	
	(Signature of Inventor) KIM, Jin Min	

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

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PATENT REEL: 032741 FRAME: 0254