## 502556326 11/04/2013

## PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:			ASSIGNMENT				
CONVEYING PARTY	DATA						
		Execution Date					
HANBYUL SEO				09/12/2013			
HAKSEONG KIM				09/12/2013			
RECEIVING PARTY D	ATA						
Name:	LG ELECTRO	ONICS IN	C.				
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Postal Code:	150-721						
		1					
Property	Гуре	144450	Number				
Property Application Number:	Гуре	141153					
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Application Number:	DATA	3)205-80	01				
Application Number:	DATA (703 703	3)205-809 i-205-800	01 50 0				
Application Number:  CORRESPONDENCE  Fax Number:  Phone: Email:	DATA (703 703 mai	3)205-80: i-205-800 lroom@b	01 50 0 skb.com, majanos@bskb.com				
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PATENT REEL: 031537 FRAME: 0396

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Total Attachments: 2

LG Ref. : 12FCCM357US02 KBK No. OPP-TZ-2012-0075-US-00

Attorney Docket: 0465-4037PUS1

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## **ASSIGNMENT**

Application No	o.:	14/115,301 Fi	iled:	November 1, 2013
insert Name(s) of inventor(s)	₽	***(Given Name FAMILY NAME (ALL CAPS))***  WHEREAS, <b>SEO</b> , <b>Hanbyul and KIM</b> , <b>Hakseon</b> g  (hereinafter designated as the undersigned) has (hav	e) in	vented certain new and useful improvements in:
Insert Title of Invention	₽	METHOD FOR TRANSMITTING/RECEIVING DOV COMMUNICATION SYSTEM AND DEVICE THEREI		NK CONTROL INFORMATION IN WIRELESS
		for which an application for Letters Patent of the undersigned (except in the case of a provisional appl		<b>J</b>
Insert Date of Signing of Appln.	⇔	on09/12/2013		; and
Insert Name of Assignee	⇒	WHEREAS, LG ELECTRONICS INC.		
Insert Address of Assignee		of 20, Yeouido-dong, Yeongdeungpo-gu, Seoul 150-7	<sup>7</sup> 21, R	depublic of Korea,
		its heirs, successors, legal representatives and assign of acquiring the entire right, title and interest in and that may be granted therefor in the United States of	l to s	aid invention and in and to any Letters Patent(s)
Check Box if Appropriate	÷	in any foreign countries.		
		NOW, THEREFORE, for good and valuable consider the undersigned has (have) sold, assigned and transand transfer unto said Assignee the full and exclus America, its territories, dependencies and possession and all Letters Patent(s) which may be granted the dependencies and possessions, and if the box above any and all divisions, reissues, continuations, conterms for which the same may be granted.	nsfern ns ar erefore e is de	red, and by these presents does (do) sell, assign ight to the said invention in the United States of and the entire right, title and interest in and to any in the United States of America, its territories, esignated, in any and all foreign countries; and to

Attorney Docket: 0465-4037PUS1

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 Letters 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 Patent(s) 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 .	2013,9,12	Name of Inventor(S	Signature) SEO, Hanbyul	
Date	2017.9,12	Name of Inventor	5ignature) KIM, Hakseong	

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