

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4292084

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	Jae Won SUNG	10/20/2010
	Seung Wook PARK	10/20/2010
	Yong Joon JEON	10/20/2010
	Jung Sun KIM	10/20/2010
	Young Hee CHOI	10/20/2010
	Byeong Moon Jeon	10/20/2010
	Joon Young PARK	10/20/2010
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	LG ELECTRONICS INC.	
<b>Street Address:</b>	128, YEOUI-DAERO, YEONGDEUNGPO-GU	
<b>City:</b>	SEOUL	
<b>State/Country:</b>	KOREA, REPUBLIC OF	
<b>Postal Code:</b>	07336	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	<b>Application Number:</b>	15441591
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(877)769-7945	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
<b>Phone:</b>	(202) 626-6431	
<b>Email:</b>	apsi@fr.com	
<b>Correspondent Name:</b>	WON S. YOON	
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.	
<b>Address Line 2:</b>	P.O.BOX 1022	
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022	
<b>ATTORNEY DOCKET NUMBER:</b>	19819-0309003	
<b>NAME OF SUBMITTER:</b>	SHARON M. ALLEN	
<b>SIGNATURE:</b>	/Sharon M. Allen/	
<b>DATE SIGNED:</b>	02/27/2017	

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**Total Attachments: 2**

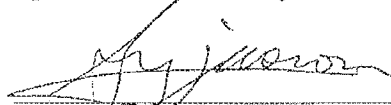
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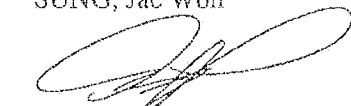
ASSIGNMENT

For valuable consideration, we, hereby assign to: LG ELECTRONICS INC., a corporation of Republic of Korea having a place of business at: 20 Yeouido-dong Yeongdeungpo-gu Seoul KR 150-721 and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled, filed January 27, 2016, and assigned U.S. Serial Number 15/007,896, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: 2010. 10. 20

  
SUNG, Jae Won

Date: 2010. 10. 20

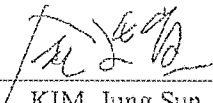
  
PARK, Seung Wook

Date: 2010. 10. 20

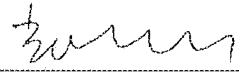
  
JEON, Yong Joon

Attorney's Docket No.:

Date: October 20, 2010

  
KIM, Jung Sun

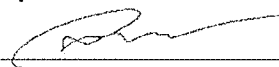
Date: October 29, 2010

  
CHOI, Young Hee

Date: October 20, 2010

  
JEON, Byeong Moon

Date: October 20, 2010

  
PARK, Joon Young

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RECORDED: 02/27/2017

REEL: 041378 FRAME: 0355