

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4286039

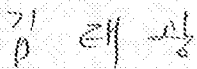
<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TAE-KWANG KIM	02/10/2017
DONG-HYUN LEE	02/10/2017
WON-KYU LIM	02/10/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAMSUNG ELECTRONICS CO., LTD.
<b>Street Address:</b>	129, SAMSUNG-RO, YEONGTONG-GU, GYEONGGI-DO
<b>City:</b>	SUWON-SI
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	16677
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	29594769
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	202-429-0020
<b>Email:</b>	pto@nsiplaw.com
<b>Correspondent Name:</b>	NSIP LAW
<b>Address Line 1:</b>	P.O. BOX 65745
<b>Address Line 4:</b>	WASHINGTON, D.C. 20035
<b>ATTORNEY DOCKET NUMBER:</b>	D91098.1321
<b>NAME OF SUBMITTER:</b>	SHABNAM NOWROUZI
<b>SIGNATURE:</b>	/Shabnam Nowrouzi/
<b>DATE SIGNED:</b>	02/22/2017
<b>Total Attachments: 2</b>	
source=NewDesApp_D910981321_20170217LFCE_CDA_Updated#page1.tif	
source=NewDesApp_D910981321_20170217LFCE_CDA_Updated#page2.tif	




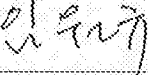
**COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)**

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.

In witness whereof, I, as a below-named inventor and assignor, intending to be legally bound, have hereunto affixed my signature on the date indicated below next to my signature.

Inventor's Legal Name	Tae-Kwang KIM		
Inventor's Signature		Date	Feb 10, 2017
Residence (City, Country)	Suwon-si, Republic of Korea		
Mailing Address	#203-702 (Shin-dong, Raminan-Yeonglong-Markone 2danji), Samsung-ro 11, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea		

Inventor's Legal Name	Dong-Hyun LEE		
Inventor's Signature		Date	Feb, 10, 2017
Residence (City, Country)	Hwaseong-si, Republic of Korea		
Mailing Address	#780-1302(Neung-dong, EG-The-1 APT) Dongtancheon-ro 315-34, Hwaseong-si, Gyeonggi-do, Republic of Korea		

Inventor's Legal Name	Won-Kyu LIM		
Inventor's Signature		Date	Feb, 10, 2017
Residence (City, Country)	Suwon-si, Republic of Korea		
Mailing Address	#101-1402(Seryu-dong, Suwon-gwonseon Eowolrim) Seogwon-ro 43beongil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic of Korea		