

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

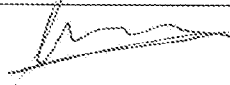
EPAS ID: PAT5049051

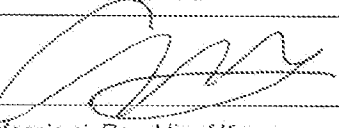
SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JINHO KIM	06/28/2018
TAE WON SONG	07/02/2018
JU WAN LIM	06/28/2018
YOUNG HUN SUNG	06/28/2018
HONGSOO CHOI	06/28/2018
RECEIVING PARTY DATA	
Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU, GWEONGGI-DO
City:	SUWON-SI
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16034528
CORRESPONDENCE DATA	
Fax Number:	(202)315-3758
<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>	
Phone:	202-429-0020
Email:	pto@nsiplaw.com
Correspondent Name:	NSIP LAW
Address Line 1:	P.O. BOX 65745
Address Line 4:	WASHINGTON, D.C. 20035
ATTORNEY DOCKET NUMBER:	012052.1626
NAME OF SUBMITTER:	STEPHEN T. BOUGHNER
SIGNATURE:	/Stephen T. Boughner/
DATE SIGNED:	07/13/2018
Total Attachments: 2	
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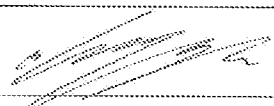
COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

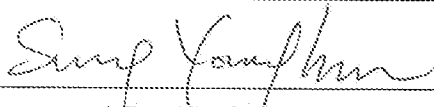
further applications, Assignments, preliminary statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

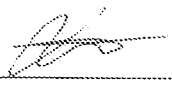
In witness whereof, I, as a below-named inventor and assignor, intending to be legally bound, have hereunto affixed my signature on the date indicated below next to my signature.

Inventor's Legal Name	Jinho KIM		
Inventor's Signature		Date	2018. 06. 28.
Residence (City, Country)	Yongin-si, Republic of Korea		
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Youngtong-gu Suwon-si, Gyeonggi-do 16678, Republic of Korea		

Inventor's Legal Name	Tae Won SONG		
Inventor's Signature		Date	2018. 7. 2.
Residence (City, Country)	Yongin-si, Republic of Korea		
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Youngtong-gu Suwon-si, Gyeonggi-do 16678, Republic of Korea		

Inventor's Legal Name	Ju Wan LIM		
Inventor's Signature		Date	2018. 6. 28.
Residence (City, Country)	Suwon-si, Republic of Korea		
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Youngtong-gu Suwon-si, Gyeonggi-do 16678, Republic of Korea		

Inventor's Legal Name	Young Hun SUNG		
Inventor's Signature		Date	2018. 6. 28
Residence (City, Country)	Hwaseong-si, Republic of Korea		
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Youngtong-gu Suwon-si, Gyeonggi-do 16678, Republic of Korea		

Inventor's Legal Name	Hongsoo CHOI		
Inventor's Signature		Date	2018. 6. 28
Residence (City, Country)	Seoul, Republic of Korea		
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Youngtong-gu Suwon-si, Gyeonggi-do 16678, Republic of Korea		