PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BYOUNG MOK KIM	06/26/2018
SEOK-JUN SON	06/26/2018
JUNG-GEUN LEE	06/26/2018
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PROPERTY NUMBERS Total: 1

Property Type	Number				
Application Number:	16018727				

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SIGNATURE:	/T. Brian Bell/
DATE SIGNED:	06/26/2018

Total Attachments: 1

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PATENT REEL: 046204 FRAME: 0614

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WORLD WIDE ASSIGNMENT

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IN CONSIDERATION of good and valuable consideration provided to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

SAMSUNG ELECTRONICS CO., LTD. 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16877 Republic of Korea

(hersinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled (Title of Invention)

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relating to international Patent Application PCT/ and/or for which application for Letters Patent of the United States of America was executed on even date herewith or, if not so executed, was:					
(a) executed on ;	(Insert date of execution of application, if not concurrent)				
(b) filed on ,	Any registered allomey or palent agent of STAAS & HALSEY U.P.				
Serial No.	1201 New York Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data when known				

and to said application and all Letters Patent(s) of the United States of America and of any and all other countries granted on said invention and/or on said application and any rights of priority, extension, continuation, division, renewal, substitute, reissue, reviews (including inter paries review, post grant review and covered business method review), supplemental examination, interference, or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), whan requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, destrable or expedient, for securing, maintaining and enforcing protection for said invention in the United States of America and in any and all other countries, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), and in any rights of priority, extension, continuation, division, renewal, substitute, reissue, reviews, supplemental examination, interference, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing swom testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned in (Typed Name & Signature of Inventor(s))	nventor(s) has (have) affixed h (Date)	isher/their signature(s). (Typed Name & Signature of Witness(es))
1) BUTANG MORKUM BYOUNG MORKUM	2 <u>018 .06. 2 6</u>	
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3)A///	2018 .06. 26	
Jung-Geum LEE 4)	2018 .06. 26	
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PATENT REEL: 046204 FRAME: 0615

RECORDED: 06/26/2018