PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
HEE-JIN KO	08/10/2018	
HYUN-JEE KWAK	08/10/2018	
JANG-WON SEO	08/10/2018	
JAE JULIEN	08/10/2018	
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RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	29660228	

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Total Attachments: 2

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PATENT REEL: 046718 FRAME: 0963

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PATENT REEL: 046718 FRAME: 0964

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

DECLARATION

As a below-named inventor, i hereby declare that or to United States Application Number or PCT Int	this declaration is directed to the application attached hereto,
filed on	
	EREOF WITH GRAPHICAL USER INTERFACE
The above-identified application was made or auth	orized to be made by me.
I believe I am the original inventor or an original joi application.	int inventor of a claimed invention in the above-identified
I hereby acknowledge that any willful false stateme 1001 by fine or imprisonment of not more than five	ent made in this declaration is punishable under 18 USC (5) years, or both.
I have reviewed and understand the contents of th	e above-identified application, including the claims.
me to be material to patentability as defined in 37 (ates Patent and Trademark Office all information known to CFR 1.56, including for continuation-in-part applications, in the filing date of the prior application and the national or part application.
AS	SIGNMENT
For valuable consideration, I, as a below-named as	ssignor, hereby assign to:
Samsung Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do 16677 Republic of Korea	
and its successors and assigns (collectively herein	after called "the Assignee"), the entire right, title, and
interest throughout the world in the inventions and	improvements that are the subject of the application
identified in the above declaration, which is United	States Application Number or PCT International Application
Number 29/660,228 filed on _	August 20, 2018
, , , , , , , , , , , , , , , , , , , ,	the above-identified application to hereafter complete this ober and the filing date of the above-identified application ors that may be discovered in this Assignment.
utility models, and design registrations granted for subject of the above-identified application, and the identified application under the International Conve Cooperation Treaty, the European Patent Convent	lication, any and all United States and foreign patents, any of the inventions and improvements that are the right to claim priority based on the filing date of the above-ention for the Protection of Industrial Property, the Patention, and all other treaties of like purposes; and I authorize or in its own name for patents, utility models, design

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registrations, like rights of exclusion, and inventors' certificates for any of the inventions and improvements

that are the subject of the above-identified application; and I agree for myself and my 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.

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

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.

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