PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SE LIM YOON	01/30/2019
JUN KYO LEE	01/30/2019
JAE JUN KIM	01/30/2019

RECEIVING PARTY DATA

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City:	SUWON-SI
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	29694444	

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DATE SIGNED:	06/11/2019

Total Attachments: 2

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PATENT REEL: 049427 FRAME: 0472 505518028

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

DECLARATION

As a below-named inventor, I hereby declare that this dec	slaration is directed to the application attached hereto,
or to United States Application Number or PCT Internation	nal Application Number
filed on	(if applicable), entitled:
DISHWAS	SHER
The above-identified application was made or authorized to	to be made by me.
I believe I am the original inventor or an original joint inver	ntor of a claimed invention in the above-identified

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the above-identified application, including the claims,

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

ASSIGNMENT

For valuable consideration, I, as a below-named assignor, hereby assign to:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do 18677 Republic of Korea

and its succ	cessors and assign	is (collectively herein	nafter called "the As	ssignee"), the entire right, title,	and
interest thro	oughout the world i	in the inventions and	improvements that	t are the subject of the applica	tion
identified in	the above declara	ation, which is United	States Application	Number or PCT International	Application
Number	29/694,444	filed on	June 11, 2019		

I authorize and request the attorneys appointed in the above-identified application to hereafter complete this Assignment by inserting above the application number and the filling date of the above-identified application when known, and to correct any typographical errors that may be discovered in this Assignment.

This Assignment includes the above-identified application, any and all United States and foreign patents, utility models, and design registrations granted for any of the inventions and improvements that are the subject of the above-identified application, and the right to claim priority based on the filing date of the above-identified 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 I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design 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.

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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.

Inventor's Legal Name	Se Lim YOON			
Inventor's Signature		Date	Jan. 70, 2019	
Residence (City, Country)	ence (City, Country) Suwon-si, Republic of Korea			
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Inventor's Legal Name	Jun Kyo LEE		
Inventor's Signature	0 ate Jan . 90 . 20/9 .		
Residence (City, Country)	Suwon-si, Republic of Korea		
Mailing Address	tress 129, Samsung-ro, Yeongiong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea		

Inventor's Legal Name	Jae Jun KIM				
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