PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAE GWANG KIM	05/20/2019
DONG HYUN LEE	05/20/2019
WON KYU LIM	05/20/2019

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.	
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Postal Code:	16677	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16462702

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ATTORNEY DOCKET NUMBER:	2494.1456	
NAME OF SUBMITTER:	TEMNIT AFEWORK REG. NO. 58,202	
SIGNATURE:	/Temnit Afework/	
DATE SIGNED:	05/22/2019	

Total Attachments: 1

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PATENT 505489623 REEL: 049262 FRAME: 0431

WORLD WIDE ASSIGNMENT

22333096

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration furnished 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, 16677 Republic of Korea

RECORDED: 05/22/2019

(hereinafter, "ASSIGNEE"), the receipt of which is transfers to ASSIGNEE the entire and exclusive rig (Title of Invention)	hereby acknowledged, the ght, title and interest to the	undersigned ASSIGNOR hereby sells, assigns and invention entitled
CLEANER AND CLEANING DEVIC	E HAVING THE SA	ME
relating to International Patent Application PGT/	and/or for sewith or, if not so executed,	which application for Letters Patent of the United was:
(a) executed on ;	(Insert date of ex	recution of application, if not concurrent)
(b) filed on , «Filing_Date» Serial No. «Serial_No»;	Any registered attorney or patent agent of STAAS & HALSEY LLP, 1201 New York Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby euthorized to insert in (b) the specified data, when known	
invention and/or on said application and any rights (including inter parties review, post grant review an reexamination application based thereon, for the fit any extensions thereof (collectively, hereinafter, "s. The ASSIGNOR agree(s), when request ASSIGNEE, to do all acts which the ASSIGNEE menforcing protection for said invention in the United and prosecution of said application(s) and the issue division, renewal, substitute, reissue, reviews, supplin any litigation or other legal proceeding which ma	of priority, extension, confidence of covered business method littern or terms for which the sidence of application(s) and Lette ed by said ASSIGNEE and ay deem necessary, desiral States of America and in a since of said Letters Petent blemental examination, interprise or be declared in rely arise or be declared in relations.	without charge to but at the expense of said
IN WITNESS WHEREOF, the undersigned inve (Typed Name & Signature of Inventor(s))	ntor(s) has (have) affixed h (Date)	nis/her/their signature(s). (Typed Name & Signature of Witness(es))
1) <u>TacQoot Cor</u> Tae Gwang KIM	2019.05.20.	and a
Tae Gwang KIM De Me jywn LEE Dong Hyun LEE	2019.05.20.	
Dong Hyun LEE 3) <u>くうかんぐんしょい</u> Won Kyu LIM	2019.05.20.	
Won Kyu LIM		

PATENT REEL: 049262 FRAME: 0432