PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6362014

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
BOWOONG SEO	05/18/2020
MINSOO KIM	05/18/2020
YONGHO HWANG	05/18/2020
JINWAN AN	05/18/2020
JIWOO LEE	05/18/2020
YEUNWOOK LIM	05/18/2020

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.	
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU,	
City:	SUWON-SI, GYEONGGI-DO, 16677	
State/Country:	KOREA, REPUBLIC OF	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16931371	

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NAME OF SUBMITTER:	WILLIAM A. MUNCK	
SIGNATURE:	/William A. Munck/	
DATE SIGNED:	INED: 10/21/2020	
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Total Attachments: 2

PATENT REEL: 054174 FRAME: 0937 source=Assignment#page1.tif source=Assignment#page2.tif

> PATENT REEL: 054174 FRAME: 0938

DOCKET NO. 2019-OPSE-3618-US (SAMS13-03618) Client Ref. GM-201902-030-1-US0

ASSIGNMENT

WHEREAS, We, Bow	oong SEO, residen	t of Suwon-si, G	yeonggi-do Re	epublic of Korea,
Minsoo KIM, resident of Suwo	on-si, Gyeonggi-do	Republic of Kor	rea, Yongho H	WANG, resident
of Suwon-si, Gyeonggi-do Re	public of Korea, J	inwan AN, resid	lent of Suwon	-si, Gyeonggi-de
Republic of Korea, Jiwoo LI	EE, resident of Su	rwon-si, Gyeong	gi-do Republi	c of Korea, and
Yeunwook LIM, resident of Su	won-si, Gyeonggi-	do Republic of K	orea, have inv	ented certain new
and useful improvements in a "	"(Title)" disclosed	in an application	for United Sta	tes Letters Pateni
(Application No/), said applica	tion having beer
executed concurrently herewith				

WHEREAS, SAMSUNG ELECTRONICS CO., LTD., a corporation organized under the laws of the Republic of Korea, having a place of business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; We authorize William A. Munck of Munck Wilson Mandala, LLP to insert in the parenthesis above the application number and filing date of said application when known; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, and make all

lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Bowoong SEO
込み4. Minsoo KIM
Yongho HWANG Yongho HWANG
JaWanAn
Jinwan AN
Jiwoo LEE
이 여 성 Yeunwook LIM