PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JONGHYUK LEE	08/25/2020
BEUNGCHAN KIM	08/26/2020
SEHYUN KIM	08/24/2020

RECEIVING PARTY DATA

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State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16978466

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	1572.1773
NAME OF SUBMITTER:	/JOHN C. GARVEY/
SIGNATURE:	/John C. Garvey/
DATE SIGNED:	09/04/2020

Total Attachments: 3

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> **PATENT REEL: 053698 FRAME: 0360** 506238638

WORLD WIDE ASSIGNMENT

S&H 1/18

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 16677 Republic of Korea (hereinafter, "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) **ELECTRONIC DEVICE AND CONTROL METHOD THEREFOR** 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) Any registered attorney or patent agent of STAAS & HALSEY LLP, 1201 New York Avenue, N.W., Suite 700 Washington, D.C. 20005 (b) filed on, Serial No. (202/434-1500) is hereby authorized to insert in (b) the specified 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 partes 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), when 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, desirable 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 sworn testimony, and obtaining and producing evidence. IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s). (Typed Name & Signature of Inventor(s)) (Date) (Typed Name & Signature of Witness(es)) August 25, 2020 Jonghyuk LEE Beungchan KIM

Sehyun KIM

PATENT REEL: 053698 FRAME: 0361

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-gii, Suwon-sii, Gyeonggi-do. 16677 Pepublic of Korea

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

relating to International Palent Application PCT/	and/or for which application for Letters Patent of the United		
States of America was executed on even date here	swith or, if not so executed, was:		
(a) executed on ;	(insert date of execution of application, if not concurrent)		
(b) filed on	Any registered attorney or patent agent of STAAS & HALSEY U.S.		
Serial No.	1251 New York Avenue, N.W., Suite 700 Washington, D.C. 20008 (202/434-1599) 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 gramed on said of priority, extension, continuation, division, renewal, substitute, reissue, reviews		

The ASSIGNOR agree(s), when 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, desirable or expedient, for securing, maintaining and enforcing protection for said invention in the United States of America and in any and all other countries, inclining 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 caths, providing swomtestimony, and obtaining and producing evidence.

	IN WITNESS WHEREOF, the undersigned inven- (Typed Name & Signature of Inventor(s))	lor(s) has (have) affixed his/ (Date)	herithes signature(s). (Typed Name & Signature of Witness(es))
1),	Jonghyuk LEE		
2),			
	Senyun KIM		
4)		<u> </u>	
9)		Securitaria de la companya del companya de la companya del companya de la company	
6),			
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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 16677 Republic of Korea

RECORDED: 09/04/2020

s to ASS/GNEE the entire and exclusive rig	nereby acknowledged, the ur litt, title and interest to the in	ndersigned ASSIGNOR hereby sells, assigns and vention emitted
TRONIC DEVICE AND CONTROL	. METHOD THEREFO	₹
to International Patent Application PCT/ of America was executed on even date here	_/and/or for whowith or, if not so executed, w	ich application for Letters Patent of the United as:
executed on ;	(Insert date of ex	ecution of application, if not concurrent)
filed on ,		iorney or patent agent of STAAS & HALSEY U.A. Ivenue, N.W., Suite 700 Washington, D.C. 20005
at No.	(202/434-1500) is data, when know	s hereby authorized to insert in (b) the specified
in and/or on said application and any rights ng inter partes review, post grant review and ination application based thereon, for the fu	of priority, extension, continu d covered business method r If term or terms for which the	ation, division, romaval, substitute, release, reviews eview), supplemental examination, interference, or eaid Letters Patent(s) may be granted and including
HEE, to do all acts which the ASSIGNEE ming protection for said invention in the United secution of said application(s) and the issue ation, division, renewal, substitute, reissue, fing, and in any litigation or other legal probbe limited to executing all papers, including	ay deem necessary, desirabi I States of America and in an ance of said Letiers Patent(s reviews, supplemental exam seding which may arise or bi	e or expedient, for securing, maintaining and y and all other countries, including in the preparation t, and in any rights of priority, extension, insticn, interference, reexamination, or public use a declared in relation to same, such acts to include
	ntor(s) has (have) affixed his (Oate)	herithelr signature(s). (Typed Name & Signature of Witness(es))
Jonghyuk LEE		
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	Is to ASSIGNEE the entire and exclusive rigit invention) THONIC DEVICE AND CONTROL to international Patent Application PCT/ of America was executed on even date here executed an : filed on , at No. said application and all Letters Parent(s) of the audior on said application and any rights rigiting parter review, post grant review ansination application based thereon, for the full ensions thereof (ordectively, hereinatter, "as The ASSIGNOR agree(s), when request NEE, to do all acts which the ASSIGNEE ming protection for said invention in the United resecution of said application(s) and the issue ation, division, renewall, substitute, reissue, fing, and in any fligation or other legal procibe imitted to executing all papers, including my, and obtaining and producing evidence. WITNESS WHEREOF, the undersigned invested Name & Signature of Inventor(s)) Jonghyuk LEE Beungchan KIM Sehyun KIM	to international Patent Application PCT/

PATENT REEL: 053698 FRAME: 0363