505971818 03/17/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DANA JUNG	02/07/2020
KYONGTAE HAN	02/07/2020
KYOUNGJU RYU	02/07/2020
ARIM KWON	02/07/2020

RECEIVING PARTY DATA

Name:	LG ELECTRONICS INC.
Street Address:	128, YEOUI-DAERO, YEONGDEUNGPO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	29728122	

CORRESPONDENCE DATA

Fax Number: (703)205-8050

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Address Line 4: FALLS CHURCH, VIRGINIA 22042

ATTORNEY DOCKET NUMBER:	0630-8242PUS1
NAME OF SUBMITTER:	LYNN LAM
SIGNATURE:	/lynn lam/
DATE SIGNED:	03/17/2020

Total Attachments: 3

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PATENT 505971818 REEL: 052141 FRAME: 0750

US Application No. 29728122 Filing Date: March 16, 2020 Attorney Docket No.: 0630-8242PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

Title of invention	n 🖘	Speaker		
		As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:		
Application not Attached	⇔	This declaration is directed to the application attached hereto. If the application is not attached here application is as identified by the attorney docket number as set forth above and/or the following:		
Enter Appln. No	. ⇔	United States Application Number or PCT International Appln. No.		
Enter Filing Date	· 💠	filed on		
		The above-identified application was made or authorized to be made by me.		
		I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
		I have reviewed and understand the contents of the above-identified application, including the claims.		
		I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.		
		WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.		
nsert Name of Assignee	⇔	WHEREAS, LG ELECTRONICS INC.		
nsert Address of Assignee	⇔	of 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea		
		its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and		
Theck Box if Appropriate	⇔	in any foreign countries.		
		NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.		

Attorney Docket No.: 0630-8242PUS1

The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agrees to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

LEGAL NAME OF INVENTOR

Inventor's Name	*	Inventor:	Dana JUNG	Date:	2/7/2020
Inventor's Signature	ದ	Signature:		*	
An application	on d n foi	ata sheet (PT reach invento	O/SB/14 or equivalent), includ or; or check the box below and c	ling naming the entire inventive en omplete the attached page(s) to list	itity, must accompany this form. Use a additional inventors.
	linv	entors are bein	g named on thesupplemen	ital sheet(s) attached hereto.	
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MANUAL LANK SHIP SHIP

Attorney Docket No.: 0630-8242PUS1

SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

ADDITIONAL INVENTOR(5) Supplemental Sheet Page ______ of _____

		LEGAL NAME OF JOINT INVENTOR, IF ANY	
Secure States	4	Inventor: Kyongtae HAN	Date: 2/7/2020
germann's Silvenia	. 4	Signature:	
		LEGAL NAME OF JOINT INVENTOR, IF ANY	
		·	
		Inventor; Kyoungju RYU	
Inventor's Separate	· •	Signature: Signature:	
		LEGAL NAME OF JOINT INVENTOR, IF ANY	
Secondar's Numer	*	Inventor: Arim KWON	Date: 2/7/2020
Inventor's Signature	•	Simplify ()	
		LEGAL NAME OF JOINT INVENTOR, IF ANY	
		•	
Inventor's Nume	**	Inventor:	Date:
becamber's Segmentane	4	Signature:	
		LEGAL NAME OF JOINT INVENTOR, IF ANY	
havennar's Name	4	Inventor:	Date:
Secretar's Signature		Signature:	
		LEGAL NAME OF JOINT INVENTOR, IF ANY	
largesotare's Master	*	Inventor:	Date:
Januarier's Signatur	*	Signature:	
		LEGAL NAME OF JOINT INVENTOR, IF ANY	
		·	
javantor's Nover	*	inventor.	Date:
Spranne's September	*	Signature:	
		LEGAL NAME OF JOINT INVENTOR, IF ANY	
personal in the same	-	Inventor	Date:
Janestini's September	*	Signature:	

Page 3 of 3

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RECORDED: 03/17/2020