## 507116127 02/07/2022

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7162967

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
BEOMSEOK LEE	01/20/2022
HYOJUNG HAN	01/27/2022
SATHISH INDURTHI	01/26/2022
MOHD ABBAS ZAIDI	01/20/2022
NIKHIL KUMAR	01/20/2022

### **RECEIVING PARTY DATA**

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

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17666127

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	Q264638
NAME OF SUBMITTER:	TODD YARBOROUGH - TEAMS
SIGNATURE:	/Todd Yarborough/
DATE SIGNED:	02/07/2022
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT 507116127 REEL: 058913 FRAME: 0246

## **Total Attachments: 6**

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PATENT REEL: 058913 FRAME: 0247

Docket No.: Q264638 SEC Ref: ML-202007-007-1-US0 Only After Sept 16, 2012

## ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR L63)

Whereas, We, the undersigned inventors hereinafter called assignors, have invented certain improvements described in the application identified below; and

Whereas, SAMSUNG ELECTRONICS CO., LTD. of 129, Samsung-to, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea. (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor:

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America and all other countries, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and including rights of priority under the International Convention of Paris (1883) as amended, the laws of all foreign countries, and the laws of the United States including the right to claim priority under 35 USC 119 and the right to sue for past damages, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignce may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

(Legalization not required for recording but is prima facle evidence of execution under 35 USC 261)

As the below named inventor, I hereby	declar	e that:
This assignment with declaration is	83	The attached application, or
directed to:		United States Application or PCT International Application Numberfiled on
The application is entitled:		

### ELECTRONIC DEVICE AND CONTROL METHOD THEREOF

The above identified application was made or was 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 application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

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

[Page 1]

NAME OF SOLE OR FIRST INVENTOR:	,			
Given Name (first and middle [if any]) Beomsook	Pamily Name or Surname LEE			
Inventor's signature	Date 2022-01-20			
Residence: Suwon-si, Republic of Korea				
Mailing Address: 129, Samsung-ro, Yeongtong-gu, Sowon-si, Gyet	mggi-do, 16677, Republic of Korea			
NAME OF SECOND INVENTOR:				
Given Name (first and middle [if any]) Hynjung	Family Name or Surname HAN			
Inventor's signature	Date			
Residence: Sowon-si, Republic of Korea				
Mailing Address: 129, Samsung-ro, Yeingtong-gu, Suwim-si, Gyei	onggi-do, 16677, Republic of Kores			
NAME OF THIRD INVENTOR:				
Given Name (first and middle [if any]) Saihish	Family Name or Surname INDURTHI			
Inventor's signature	Date			
Residence: Suwon-si, Republic of Korea				
	4 00 00 00 00 00 00 00 00 00 00 00 00 00			
Mailing Address: 129, Samsung-ro, Veongtong-gu, Suwon-si, Gyer	onggi-do, 16677, Republic of Kores			
NAME OF FOURTH INVENTOR:				
Given Name (first and middle [if any]) Mohd Abbas	Family Name or Surname ZAIDI			
Inventor's signature (WW)	Date 2022-01-20			
Residence: Suwim-si, Republic of Korea				
Mailing Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Oyeonggi-do, 16677, Republic of Korea				
NAME OF FIFTH INVENTOR:	·			
Given Name (first and middle [if any]) Nikhil	Family Name or Suraame KUMAR			
Inventor's signature Thirds and	Date 2022-01-20			
Residence: Suwon-si, Republic of Kores				
Mailing Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyconggi-do, 16677, Republic of Korca				

Q264638 Docket No.: SEC Ref: ML-202007-007-1-US0

Only After Sept 16, 2012

## ASSIGNMENT WITH DECLARATION FOR UTILITY OR **DESIGN PATENT APPLICATION (37 CFR 1.63)**

Whereas, We, the undersigned inventors hereinafter called assignors, have invented certain improvements described in the application identified below; and

Whereas, SAMSUNG ELECTRONICS CO., LTD. of 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America and all other countries, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and including rights of priority under the International Convention of Paris (1883) as amended, the laws of all foreign countries, and the laws of the United States including the right to claim priority under 35 USC 119 and the right to sue for past damages, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261)

As the below harned inventor, I hereby	ueciai	e mat.	
This assignment with declaration is directed to:	Ø	The attached application, or	
directed to.		United States Application or PCT International Application Number	filed on
The application is entitled:		<del></del> ·	

### ELECTRONIC DEVICE AND CONTROL METHOD THEREOF

The above identified application was made or was authorized to be made by me.

As the below nemed inventor I harely declare that

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 application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

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

> **PATENT** [Page 1] REEL: 058913 FRAME: 0250

NAME OF SOLE OR FIRST INVENTOR:			
Given Name (first and middle [if any]) Beomseok	Family Name or Surname LEE		
Inventor's signature	Date		
Residence: Suwon-si, Republic of Korea			
Mailing Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeon	nggi-do, 16677, Republic of Korea		
NAME OF SECOND INVENTOR:	T		
Given Name (first and middle [if any]) Hyojung	Family Name or Surname HAN		
Inventor's signature	Date Jan 27 <sup>th</sup> , 2022		
Residence: Suwon-si, Republic of Korea			
Mailing Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeongtong-gu, Gyeong-gu,	nggi-do, 16677, Republic of Korea		
NAME OF THIRD INVENTOR:			
Given Name (first and middle [if any]) Sathish	Family Name or Surname INDURTHI		
Inventor's signature	Date		
Residence: Suwon-si, Republic of Korea			
Mailing Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeongtong-gu, Gyeong-gu,	nggi-do, 16677, Republic of Korea		
NAME OF FOURTH INVENTOR:			
Given Name (first and middle [if any]) Mohd Abbas	Family Name or Surname ZAIDI		
Inventor's signature Date			
Residence: Suwon-si, Republic of Korea			
Mailing Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea			
NAME OF FIFTH INVENTOR:			
Given Name (first and middle [if any]) Nikhil	Family Name or Surname KUMAR		
Inventor's signature	Date		
Residence: Suwon-si, Republic of Korea			
Mailing Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea			

**PATENT** [Page 2] REEL: 058913 FRAME: 0251

Docket No.: Q264638 SEC Ref: ML-202007-007-1-US0 Only After Sept 16, 2012

# ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

Whereas, We, the undersigned inventors hereinafter called assignors, have invented certain improvements described in the application identified below; and

Whereas, <u>SAMSUNG ELECTRONICS CO.</u>, <u>LTD.</u> of 129, <u>Samsung-ro.</u> Yeongtong-gu, <u>Suwon-si.</u> Gyeonggi-do, 16677, <u>Republic of Korea</u>, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America and all other countries, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and including rights of priority under the International Convention of Paris (1883) as amended, the laws of all foreign countries, and the laws of the United States including the right to claim priority under 35 USC 119 and the right to sue for past damages, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261)

As the below named inventor, I hereby	declai	e that:	
This assignment with declaration is directed to:	Ø	The attached application, or	
directed to.		United States Application or PCT International Application Number	filed on
The application is entitled:		·	

### ELECTRONIC DEVICE AND CONTROL METHOD THEREOF

The above identified application was made or was 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 application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

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

PATENT REEL: 058913 FRAME: 0252

NAME OF SOLE OR FIRST INVENTOR:				
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NAME OF SECOND INVENTOR:				
Given Name (first and middle [if any]) Hyojung	Family Name or Surname HAN			
Inventor's signature	Date			
Residence: Suwon-si, Republic of Korea				
Mailing Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeongtong-gu, Gyeong-gu, G	nggi-do, 16677, Republic of Korea			
NAME OF THIRD INVENTOR:				
Given Name (first and middle [if any]) Sathish	Family Name or Surname INDURTHI			
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NAME OF FOURTH INVENTOR:				
Given Name (first and middle [if any]) Mohd Abbas	Family Name or Surname ZAIDI			
Inventor's signature	Date			
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NAME OF FIFTH INVENTOR:				
Given Name (first and middle [if any]) Nikhil	Family Name or Surname KUMAR			
Inventor's signature Date				
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Mailing Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea				

**PATENT** [Page 2] **REEL: 058913 FRAME: 0253** 

**RECORDED: 02/07/2022**