

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4603211

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JUNGWOO SHIN	08/24/2017
JOONHWAN KIM	08/24/2017
JEONG-WON KO	08/24/2017
MUNHWI KIM	08/24/2017
HYE-JIN KIM	08/24/2017
KYUNG-WOOK RO	08/24/2017
MYOUNG-SOO PARK	08/24/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAMSUNG ELECTRONICS CO., LTD.
<b>Street Address:</b>	129, SAMSUNG-RO, YEONGTONG-GU
<b>City:</b>	SUWON-SI, GYEONGGI-DO
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15710051
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	202-293-0804
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<b>Address Line 1:</b>	1130 CONNECTICUT AVE., NW, SUITE 420
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<b>ATTORNEY DOCKET NUMBER:</b>	0202-1397
<b>NAME OF SUBMITTER:</b>	RAYMOND B. PERSINO
<b>SIGNATURE:</b>	/Raymond B. PERSINO/
<b>DATE SIGNED:</b>	09/20/2017
<b>Total Attachments: 4</b>	

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## RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

### 1. Name of conveying party(ies)

1) Jungwoo SHIN, 2) Joonhwan KIM, 3) Jeong-Won KO,  
4) Munhwi KIM, 5) Hye-Jin KIM, 6) Kyung-Wook RO and  
7) Myoung-Soo PARK

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

### 3. Nature of conveyance/Execution Date(s):

Execution Date(s) August 24, 2017

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

### 2. Name and address of receiving party(ies)

Name: Samsung Electronics Co., Ltd.

Internal Address: \_\_\_\_\_

Street Address: 129, Samsung-ro, Yeongtong-gu

City: Suwon-si, Gyeonggi-do

State: \_\_\_\_\_

Country: Republic of Korea Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

### 4. Application or patent number(s):

A. Patent Application No.(s)  
15/710,051

☐ This document is being filed together with a new application.  
B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

### 5. Name and address to whom correspondence concerning document should be mailed:

Name: Jefferson IP Law, LLP

Internal Address: Raymond B. Persino

Street Address: 1130 Connecticut Ave., NW, Suite 420

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State: DC Zip: 20036

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### 6. Total number of applications and patents involved: One

7. Total fee (37 CFR 1.21(h) & 3.41) \$ \_\_\_\_\_  
☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

### 8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

### 9. Signature:

/Raymond B. PERSINO/

Signature

September 20, 2017

Date

Raymond B. Persino

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

## Assignment

**WHEREAS**, the following inventors, namely 1) Jungwoo SHIN, 2) Joonhwan KIM, 3) Jeong-Won KO, 4) Munhwi KIM, 5) Hye-Jin KIM, 6) Kyung-Wook RO, and 7) Myoung-Soo PARK (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

### **ELECTRONIC DEVICE AND OPERATION METHOD THEREOF,**

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on September 20, 2017, and assigned Serial No. 15/710,051; and,

**WHEREAS**, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, 16677 (hereinafter called "Assignee"), is desirous of acquiring the entire right, title and interest therein;

**NOW, THEREFORE, BE IT KNOWN** that for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors do hereby sell, assign and transfer unto said Assignee the entire and exclusive worldwide right, title and interest in and to all said inventions and discoveries disclosed in said application, and in and to said application, any and all substitutions, divisions, provisionals, conversions of provisionals and continuations thereof, and in and to all Letters Patent, United States and all other foreign countries, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof; and the right to file any other foreign country application and/or claim priority under the provisions of any international treaty or convention arising from this application or any divisional, continuing, substitute or reissue application therefrom. The aforesaid assignment includes the right in and to all income, royalties, damages and payments, now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale, assignment and transfer had not been made.

Assignors covenant and agree, without further compensation to said Assignors but at Assignee's expense:

- a. to execute:
  - i. all papers to be used in connection with this application and any divisional, continuing, substitute or reissue application thereof, as the Assignee may deem necessary or expedient, and
  - ii. all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional, continuing, substitute or reissue application thereof, as may be necessary or expedient;
- b. to cooperate with the Assignee in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other



DOCKET NO.: 0202-1397  
CLIENT REF.: SP17147-US\_DMC  
SAMSUNG REF.: GM-201605-166-1-US0

Signature of Inventor:

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August 28, 2017  
Date

Signature of Inventor:

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Joohwan KIM

August 28, 2017  
Date

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