## 504556501 09/20/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4603211

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
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

#### **RECEIVING PARTY DATA**

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

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	15710051	

### **CORRESPONDENCE DATA**

Fax Number:

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.

**Phone:** 202-293-0804

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ATTORNEY DOCKET NUMBER: 0202-1397

NAME OF SUBMITTER: RAYMOND B. PERSINO

SIGNATURE: /Raymond B. PERSINO/

DATE SIGNED: 09/20/2017

**Total Attachments: 4** 

PATENT REEL: 043640 FRAME: 0011

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> PATENT REEL: 043640 FRAME: 0012

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)	2. Name and address of receiving party(ies)				
1) Jungwoo SHIN, 2) Joonhwan KIM, 3) Jeong-Won KO, 4) Munhwi KIM, 5) Hye-Jin KIM, 6) Kyung-Wook RO and	Name: Samsung Electronics Co., Ltd.				
7) Myoung-Soo PARK	Internal Address:				
Additional name(s) of conveying party(ies) attached? Yes	Street Address: 129, Samsung-ro, Yeongtong-gu				
Execution Date(s) August 24, 2017					
Assignment Merger					
Security Agreement Change of Name	City: Suwon-si, Gyeonggi-do				
Joint Research Agreement	State:				
Government Interest Assignment	otato.				
Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip:				
Other	Additional name(s) & address(es) attached? Yes Vo				
Additional numbers at	tached? Yes No				
5. Name and address to whom correspondence	6. Total number of applications and patents				
concerning document should be mailed:	involved: One				
Name: Jefferson IP Law, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$				
Internal Address: Raymond B. Persino	Authorized to be charged by credit card				
-	Authorized to be charged to deposit account				
Street Address: 1130 Connecticut Ave., NW, Suite 420	Enclosed				
	None required (government interest not affecting title)				
City: Washington	8. Payment Information				
State: DC Zip:20036	a. Credit Card Last 4 Numbers Expiration Date				
Phone Number: <u>202-293-0804</u>					
Fax Number: <u>202-403-3587</u>	b. Deposit Account Number  Authorized User Name				
Email Address: usdocketing@jeffersonip.com					
9. Signature: /Raymond B. PERSING	O/ September 20, 2017				
Signature	Date				
Raymond B. Persino Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:				

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**REEL: 043640 FRAME: 0013** 

DOCKET NO.: 0202-1397

CLIENT REF.: SP17147-US\_DMC SAMSUNG REF.: GM-201605-166-1-US0

## 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 <u>September 20, 2017</u>, and assigned Serial No. <u>15/710.051</u>; 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 bereafter 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:
  - 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
  - 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

proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof;

- c. to communicate to the Assignee any facts relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof, including evidence for any interference, litigation, mediation, arbitration or other proceeding relating to said invention, whenever requested;
- d. to testify in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof whenever requested; and
- e. to perform all other affirmative acts which may be necessary or desirable to secure full and complete protection of the inventions and discoveries or that may be necessary or desirable to vest in Assignee the complete title to the inventions and discoveries and Letters Patent hereby conveyed and to enable Assignee to record title.

Assignors hereby authorize and request the United States Patent and Trademark Office or any other issuing authority to issue any and all Letters Patent that may be granted upon this invention and/or this application or any divisional, continuing, substitute or reissue application thereof to the Assignee, its legal representatives, successors and assigns.

Assignors each hereby represents, covenants and warrants that he or she has the full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

The provisions of this Assignment are binding upon Assignors' heirs, legal representatives and/or administrators and assigns.

Assignors hereby grant to the law firm of Jefferson IP Law, LLP of Washington, DC and its attorneys and agents as associated with Customer No. 68103 the authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

2

DOCKET NO.: 0202-1397

CLIENT REF.: SP17147-US\_DMC

SAMSUNG REF.: GM-201605-166-1-US0

Signature of Inventor:	Junalia SHIN	Sugar 20, 2019
	Jungwoo SHIN	Date
Signature of Inventor:	Joahnan Kim	August 24, 2015
	Joonhwan KIM	Date
Signature of Inventor:	Teony Pon Ko Jeong-Won KO	August 24 , 2019 Date
Signature of Inventor:	Munhwi KIM Munhwi KIM	August 24, 30 (1) Dale
Signature of Inventor:	Hye-Tim KIM Hye-Jim KIM	<u>August . 24., 2677</u> <b>D</b> ate
Signature of Inventor:	Kyung-Wook RO Kyung-Wook RO	August . 24,2017 Date
Signature of Inventor:	Myonng-Co MRK  Myoung-Soo PARK	August 24. 2019 Date