## 503814120 05/05/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3860768

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HYUN-HEE PARK	05/04/2016
JAE-MOON KIM	05/04/2016
SUNG-OH KIM	05/04/2016
YONG-MAN LEE	05/04/2016
KWANG-TAI KIM	05/04/2016
SOO-HYUNG KIM	05/04/2016
DONG-HYUN YEOM	05/04/2016
KI-HUK LEE	05/04/2016

#### **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
Postal Code:	16677

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

Property Type	Number		
Application Number:	15147459		

#### **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

Email: usdocketing@jeffersonip.com
Correspondent Name: JEFFERSON IP LAW, LLP

Address Line 1: 1130 CONNECTICUT AVE., NW, SUITE 420

Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER:	0201-1650
NAME OF SUBMITTER:	RAYMOND B. PERSINO
SIGNATURE:	/Raymond B. PERSINO/

PATENT 503814120 REEL: 038479 FRAME: 0679

DATE SIGNED:	05/05/2016				
Total Attachments: 10					
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source=0201-1650AssignmentAsFiled05	5-05-2016#page2.tif				
source=0201-1650AssignmentAsFiled05	5-05-2016#page3.tif				
source=0201-1650AssignmentAsFiled05	5-05-2016#page4.tif				
source=0201-1650AssignmentAsFiled05-05-2016#page5.tif					
source=0201-1650AssignmentAsFiled05-05-2016#page6.tif					
source=0201-1650AssignmentAsFiled0	5-05-2016#page7.tif				
source=0201-1650AssignmentAsFiled05-05-2016#page8.tif					
source=0201-1650AssignmentAsFiled05-05-2016#page9.tif					
source=0201-1650AssignmentAsFiled05-05-2016#page10.tif					

RECORDATION FO	RM COVER SHEET		
PATENT	S ONLY		
To the Director of the U.S. Patent and Trademark Office: Pleas	se 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) Hyun-Hee PARK, 2) Jae-Moon KIM, 3) Sung-Oh KIM, 4) Yong-Man LEE, 5) Kwang-Tai KIM, 6) Soo-Hyung KIM,	Name: Samsung Electronics Co., Ltd.		
7) Dong-Hyun YEOM, and 8) Ki-Huk LEE	Internal Address:		
Additional name(s) of conveying party(ies) attached? Yes V No			
3. Nature of conveyance/Execution Date(s):  Execution Date(s) May 4, 2016	Street Address: 129, Samsung-ro, Yeongtong-gu		
Assignment Merger			
	City: Suwon-si, Gyeonggi-do		
Security Agreement			
Joint Research Agreement	State:		
Government Interest Assignment	Country: Republic of Korea Zip: 16677		
Executive Order 9424, Confirmatory License			
Other  4. Application or patent number(s): This	Additional name(s) & address(es) attached? Yes V No document is being filed together with a new application.		
Additional numbers att	ached? 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	<b>7. Total fee</b> (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		
Phone Number: 202-293-0804	Expiration Date		
Fax Number: 202-403-3587	b. Deposit Account Number		
Email Address: usdocketing@jeffersonip.com	Authorized User Name		
9 Signature:			
/Raymond B. PERSINO/ Reg. Signature	#58,082 May 5, 2016 Date		
Raymond B. Persino	Total number of pages including cover		
Name of Person Signing	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

CLIENT REF.: P21897-US/DMC

SAMSUNG REF.: GM-201505-002-1-US0

# Assignment

WHEREAS, the following inventors, namely 1) Hyun-Hee PARK, 2) Jae-Moon KIM, 3) Sung-Oh KIM, 4) Yong-Man LEE, 5) Kwang-Tai KIM, 6) Soo-Hyung KIM, 7) Dong-Hyun YEOM, and 8) Ki-Huk LEE, all, citizens of the Republic of Korea (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 METHOD FOR OPERATING THE SAME.

for which a Uni	ited States Pate	nt Application is bein	ig filed concurrently	herewith or, i	if not being	
concurrently fil	led, was filed o	on <u>May 5, 20</u>	16 , 8	and assigned	Serial No. 1	5/147,459
; 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 foreign, 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 foreign 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:

- 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;

DOCKET NO.: 0201-1650 CLIENT REF.: P21897-US/DMC

SAMSUNG REF.: GM-201505-002-1-US0

 to cooperate with the Assignee in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof;

- 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.

DOCKET	NO.:	
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CLIENT REF.: P21897-US/DMC

SAMSUNG REF.: GM-201505-002-1-US0

Signature of Inventor:		2016,05,04
	Hyun-Hee PARK	Date
Signature of Inventor:		
	Jae-Moon KIM	Date
Signature of Inventor:		2016.05.04
	Sung-Oh KIM	Date
Signature of Inventor:		
	Yong-Man LEE	Date
Signature of Inventor:	Kining-tai Kim	70/6.02.04
	Kwang-Tai KIM	Date
Signature of Inventor:		Ja ( 1, 85, 4 )
	Soc-Hyung KIM	Date
Signature of Inventor:	finam	2-14.05.04
	Dong-Hyun YEOM	Date
Signature of Inventor:	gregree	2016.05.04

Ki-Huk LEE

Date

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### ELECTRONIC DEVICE AND METHOD FOR OPERATING THE SAME,

for which a (	Jnited	State	s Pate	t Application is being filed	concurrently he	rewith or, if not being	ng
concurrently	filed,	was	filed o	May 5, 2016	, and	d assigned Serial N	lo. 15/147,459
; 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 foreign, 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 foreign 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:

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- to cooperate with the Assignee in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other 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.

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SAMSUNG REF.: GM-201505-002-1-US0

Signature of Inventor:		
	Hyun-Hee PARK	Date
Signature of Inventor:	- my	70, 50, 6) OC
	Jae-Moon KIM	Date
Signature of Inventor:		
	Sung-Oh KIM	Date
Signature of Inventor:	•	
	Yong-Man LEE	Date
Signature of Inventor:		
	Kwang-Tai KIM	Date
Signature of Inventor:		
	Soo-Hyung KIM	Date
Signature of Inventor:		
	Dong-Hyun YEOM	Date
Signature of Inventor:		
	Ki-Huk LEE	Date

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DOCKET NO.: 0201-1650 CLIENT REF.: P21897-US/DMC

SAMSUNG REF.: GM-201505-002-1-US0

Signature of Inventor:		
	Hyun-Hee PARK	Date
Signature of Inventor:		
	Jae-Moon KIM	Date
Signature of Inventor:		
	Sung-Oh KIM	Date
Signature of Inventor:	14 he	2016.05.04
	Yong Man LEE	Date
Signature of Inventor:		
	Kwang-Tai KIM	Date
Signature of Inventor:		
	Soo-Hyung KIM	Date
Signature of Inventor:		
	Dong-Hyun YEOM	Date
Signature of Inventor:		
	Ki-Huk LEE	Date