## 504157638 12/29/2016

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
SEUNG-IL YOON	12/15/2016
KWAN-YOUNG KIM	12/15/2016
SERGEI SUDAKOV	12/20/2016
JAE-MIN SOH	12/15/2016
JI-HYO LEE	12/15/2016
SANG-JIN CHOI	12/15/2016
HYUN-KYU YUN	12/15/2016

#### **RECEIVING PARTY DATA**

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City:	SUWON-SI
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677

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

Property Type	Number
Application Number:	15393564

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	Q230285
NAME OF SUBMITTER:	SACHIKO REYNOLDS (TEAMS DEPT.)
SIGNATURE:	/Sachiko Reynolds/ Teams Dept.
DATE SIGNED:	12/29/2016

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This document serves as an Oath/Declaration (37 CFR 1.63).

### **Total Attachments: 6**

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Docket No.: Q230285 SEC Ref: CF-201511-003-1-US0 Only After Sept 16, 2012

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

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), 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,

I/We, the above named assignor(s), 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 I/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 I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/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 declare that:
This assignment with declaration is directed to:  United States Application or PCT International Application Number
filed on(Confirmation No).  The application is entitled:
DISPLAY SYSTEM, DISPLAY APPARATUS, AND CONTROLLING 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

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imprisonment of not more than five (5) years, or both.

NAME OF SOLE OR FIRST INVENTOR:		**********		
Given Name				
(first and middle [if any]) Seung-il	Family Name or Surname YOON			
inventor's signature Serves Zt. Yoon	Date Dec. 18. 201	6		
Residence: Yongin-si, Republic of Korea				
Mailing Address: 113-1303, 101, Sanghyeon-ro, Suji-gu, Yongin-si, Oy	yeonggi-do, Republic of Korea			
NAME OF SECOND INVENTOR:				
Given Name (first and middle [if any]) Kwan-young	Family Name or Surname KIM			
Inventor's signature (A. ** Y. Y. Y. )	Date Dec. 15 2016			
Residence: Suwon-si, Republic of Korea				
Mailing Address: 5413-404, 65, Docheong-ro, Yeongtong-gu, Suwon-s	xi, Gyeonggi-do, Republic of Korea			
NAME OF THIRD INVENTOR:				
Given Name (first and middle [if any]) Sergei	Family Name or Sumaine SUDAKOV			
Inventor's signature	Date Dec 16 2016	; ;		
Residence: Suwon-si, Republic of Korea				
Mailing Address: 102-704, 239, Yeongtong-ro 200bcon-gil, Yeongtong	g-gu, Suwon-si, Gyeonggi-do, Republic of Korea			
NAME OF FOURTH INVENTOR:				
Given Name	Family Name or Surname SOH			
Inventor's signature Too Miss Co	Date Dec. 16.2016			
Residence: Suwan-si, Republic of Karea				
Mailing Address: 112-1802, 19, Hwasan-ro 187benn-gil, Jangan-gu, Suwon-si, Gyeonggi-do, Republic of Korea				
NAME OF FIFTH INVENTOR:				
Given Name (first and middle [if any]) .li-hyo	Family Name or Surname LEE			
Inventor's signature	Date Dec. 15 2016			
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Mailing Address: 3004-604, 134, Beopjo-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea				
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Inventor's signature CHOI GAVG TIV	Date 00,10,2016		
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Mailing Address: B-402, 2-3, Sinwon-ro 283beon-gil, Yeongtong-gu, St	nvon-si, Gyeonggi-do, Republic of Korea		
NAME OF SEVENTH INVENTOR:			
Given Name (first and middle [if any]) Hyun-kyu	Family Name or Sumame YUN		
Inventor's signature 44445	Date Dec. (5. >0/6		
Residence: Seoul, Republic of Korea			
Mailing Address: 133-604, 270, Sinbanpo-ro, Seocho-gu, Seou), Republ	ic of Korea		

Docket No.: Q230285 SEC Ref: CF-201511-003-1-US0 Only After Sept 16, 2012

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

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), 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,

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

I/We, the above named assignor(s), 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 I/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 I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/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.

As the below named inventor, I hereby	y decla	re that:
This assignment with declaration is directed to:	図	The attached application, or
The application is entitled:		United States Application or PCT International Application Number filed on (Confirmation No).
DISPLAY SYS	тем,	DISPLAY APPARATUS, AND CONTROLLING METHOD THEREOF
The above identified application was i	nade o	r was authorized to be made by me.
believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
have reviewed and understand the co	ntents	of the application for which this assignment with declaration is being submitted.
I am aware of the duty to disclose to the	ne Offi	ce all information known to me to be material to patentability as defined in 37 CFR 1.56,
hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine of imprisonment of not more than five (5) years, or both.		

NAME OF SOLE OR FIRST INVENTOR:	NAME OF SOLE OR FIRST INVENTOR:			
Given Name	Power State Name of State of S			
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Inventor's signature	Date			
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NAME OF FOURTH INVENTOR:	gas ournout on o hourses and appearso of those			
Given Name				
(first and middle [if any]) Jac-min	Family Name or Surname SOH			
Inventor's signature	Date			
Residence: Suwon-si, Republic of Korea				
Mailing Address: 112-1802, 19, Hwasan-ro 187beon-git, Jangan-gu, Sus	won-si, Gyeonggi-do, Republic of Korea			
NAME OF FIFTH INVENTOR:				
Given Name				
(first and middle [if any]) Ji-hyo	Family Name or Surname LEE			
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Residence: Suwon-si, Republic of Korea				
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NAME OF SIXTH INVENTOR:				
Given Name (first and middle [if any]) Sang-jin	Family Name or Surname CHOI			
Inventor's signature	Date			
Residence: Suwon-si, Republic of Korea				
Mailing Address: B-402, 2-3, Sinwon-ro 283bcon-gii, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea				
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	Inventor's signature		Date
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