505433476 04/17/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5480276

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SU HYUK CHOI	05/09/2016
JIN WOO PARK	05/09/2016
HO YOUN KIM	05/09/2016
HYUN CHUL OH	05/09/2016
UNG SOO LEE	05/09/2016
JUN YOUNG LEE	05/09/2016
HYUN SOO JUNG	07/05/2016

RECEIVING PARTY DATA

Name:	SAMSUNG DISPLAY CO., LTD.
Street Address:	1, SAMSUNG-RO, GIHEUNG-GU
City:	YONGIN-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	17113

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15948088

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: 4083311670

Email: jkim@innovationcounsel.com

Correspondent Name: KIEUN SUNG

Address Line 1: 2890 ZANKER ROAD

Address Line 2: SUITE 200

Address Line 4: SAN JOSE, CALIFORNIA 95134

ATTORNEY DOCKET NUMBER: SHIN00064-1D US

NAME OF SUBMITTER: KYU WAN RYU

SIGNATURE: /Kyu Wan Ryu/

DATE SIGNED: 04/17/2019

505433476 PATENT REEL: 048939 FRAME: 0944

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

Total Attachments: 8

source=20180409_SHIN00064-1D_US_DA_EF#page1.tif source=20180409_SHIN00064-1D_US_DA_EF#page2.tif source=20180409_SHIN00064-1D_US_DA_EF#page3.tif source=20180409_SHIN00064-1D_US_DA_EF#page4.tif source=20180409_SHIN00064-1D_US_DA_EF#page5.tif source=20180409_SHIN00064-1D_US_DA_EF#page6.tif source=20180409_SHIN00064-1D_US_DA_EF#page7.tif source=20180409_SHIN00064-1D_US_DA_EF#page8.tif

PATENT REEL: 048939 FRAME: 0945

COMBINED DECLARATION FOR PATENT APPLICATION AND ASSIGNMENT

As a below-named inventors, we:

Su Hyuk CHOI	of	1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
Jin Woo PARK	of	1. Samsung-ro, Giheung-gu, Yongin-si,
Ho Youn KIM	of	Gyeonggi-do, Republic of Korea 1, Samsung-ro, Giheung-gu, Yongin-si,
Hyun Chul OH	of	Gyeonggi-do, Republic of Korea 1, Samsung-ro, Giheung-gu, Yongin-si,
Ung Soo LEE	of	Gyeonggi-do, Republic of Korea 1, Samsung-ro, Gibeung-gu, Yongin-si,
Jun Young LEE	of	Gyeonggi-do, Republic of Korea 1. Samsung-ro, Giheung-gu, Yongin-si,
•		Gyeonggi-do, Republic of Korea
Hyan Soo JUNG	of	1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea

believe that we are the original inventors of the subject matter (process, machine, manufacture, composition of matter, or an improvement thereof) that is claimed and for which a patent is sought by way of the application entitled

DISPLAY DEVICE AND MANUFACTURING METHOD OF THE SAME

***		 • • • •												1																																												
***	***	***	***									m	•			•	 	•				•																													•	 •						
				***								~				•		•																		88											888		ì				• • •					
						×		**				~				₩.		•	**					÷						**			8	٠		×				1			***			æ		ж				•			×			***
								w				•				₩.			**	***	×	•	**	×		*	×	**	×.	×	*	**	٠	۰	٠		***		::\			**	***	:::				×				•	×		×			×
												~				•			**	**	**	•		٠,	•			•	٠.	*	۰	*	۰	۰			×		÷			۰	×									Ž.						
								×	×			<u> </u>							**		•	•	*	•	•				١.	×	*	×	۰	۱	۱		×																		8			
												~			•				**	•	'n	•	۰	•		÷			×	×	*		۰		×		×	×																	8			
																			•		'n			`					Š		*				ì		×																		8			
																					•		۰	`					`						×																							
												~						•			•			`					`																													
												•						•		•	*	•	*	`		•			`																													
												•							•		•			`															•																			
												•								•	**			*		•			`																													
												•						•	•					•					•																													
																				*	•																																					
									_										•	*	•																																					
															۰						•	•																																				
															۰						**																																					
															۰						**	•																																				
				•											۰						**																																					
			•	*	٤										۰						``																																	•				
				r	Ĺ.	Š									۰						``																																.,	•	v,	•		
				r	£,	Š.	'n								۰						`	a																															٠,	ř	Ý	•		
				r	h,	Š.	'n								۰						ì	a																															١,		Y	۹		
			•	r	h	s.	3								۰						Č	a																															١,	ľ	ì	s		
				ľ	h	à	a								۰						Č	a																															۲,	7	Ų	S		

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

FURTHER, for good and valuable consideration, receipt of which is hereby acknowledged, we hereby sell, assign and transfer to Samsung Display Co., Ltd. a corporation, having a place of business at I. Samsung-ro, Gibeung-gu, Yongin-si, Gyconggido, Republic of Korea, its successors and assigns, the entire right, title and interest throughout the world in the invention for which a patent is sought by way of the above-identified application, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States

Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 9th day of	May	, 2016.
		may -
WITNESSED:		Su Hyuk CHOI
Signature		
Date		
Type or print name of witness		
Executed this 41/4 day of	May	. 2016.
		J.w. park
WITNESSED:		Jin Woo PARK
Signature		
Date		

Type or print name of witness

Executed this <u>4th</u> day of	May	, 2016.
		Ha Youn KIM Ho Youn KIM
WITNESSED:		
Signature		
Date		
Type or print name of witness		
Executed this <u>54h</u> day of	may	
		Hyun Chul OH Hyun Chul OH
WITNESSED:		nyar ena on
Signature		
Date		
Type or print name of witness		
7.4	Mass	
Executed this 27k day of	7144	, 2016
		(FE 47) 500
WITNESSED:		Ung Soo LEE
Signature		
Date		
Type or print name of witness		

Executed this 9th day of	way	. 2016.
		Jua Young LE
WITNESSED:		Jun Young LEE
Signature		
Date		
Type or print name of witness		
Executed thisday of		, 2016.
		Hyun Soo JUNG
WITNESSED:		
Signature		
Date		
Type or print name of witness		

COMBINED DECLARATION FOR PATENT APPLICATION AND ASSIGNMENT

As a below-named inventors, we:

Su Hyuk CHOI	of	1, Samsung-ro, Giheung-gu, Yongin-si,
		Gyeonggi-do, Republic of Korea
Jin Woo PARK	of	1, Samsung-ro, Giheung-gu, Yongin-si,
		Gyeonggi-do, Republic of Korea
Ho Youn KIM	of	1, Samsung-ro, Giheung-gu, Yongin-si,
		Gyeonggi-do, Republic of Korea
Hyun Chul OH	of	1. Samsung-ro, Giheung-gu, Yongin-si,
		Gyeonggi-do, Republic of Korea
Ung Soo LEE	of	1, Samsung-ro, Giheung-gu, Yongin-si,
		Gyeonggi-do, Republic of Korea
Jun Young LEE	of	1, Samsung-ro, Giheung-gu, Yongin-si,
		Gyeonggi-do, Republic of Korea
Hyun Soo JUNG	of	1, Samsung-ro, Giheung-gu, Yongin-si,
		Gyeonggi-do, Republic of Korea

believe that we are the original inventors of the subject matter (process, machine, manufacture, composition of matter, or an improvement thereof) that is claimed and for which a patent is sought by way of the application entitled

DISPLAY DEVICE AND MANUFACTURING METHOD OF THE SAME

which	is attached hereto.	
	was filed on	as Application Serial No.
	The above-identified application was ma	de or authorized to be made by us.

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

FURTHER, for good and valuable consideration, receipt of which is hereby acknowledged, we hereby sell, assign and transfer to Samsung Display Co., Ltd. a corporation, having a place of business at 1. Samsung-ro, Giheung-gu, Yongin-si, Gyeonggido, Republic of Korea, its successors and assigns, the entire right, title and interest throughout the world in the invention for which a patent is sought by way of the above-identified application, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States

Page 1 of 4 법무법인 세종- LO-201508-172-1-US0

REEL: 048939 FRAME: 0950

Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this day of	, 2016.
WITNESSED:	Su Hyuk CHOI
Signature	
Date	
Type or print name of witness	
Executed this day of	, 2016.
·	Jin Woo PARK
WITNESSED:	
Signature	······
Date	***************************************
Type or print name of witness	······

Page 2 of 4 법무법인 세종- LO-201508-172-1-US0

Executed this day of	, 2016.
WITNESSED:	Ho Youn KIM
Signature	·······
Date	ж.
Type or print name of witness	
Executed this day of	, 2016.
WITNESSED:	Hyun Chul OH
Signature	
Date	
Type or print name of witness	
Executed this day of	, 2016.
	Ung Soo LEE
WITNESSED:	-
Signature	
Date	
Type or print name of witness	

Page 3 of 4 법무법인 세종- LO-201508-172-1-US0

REEL: 048939 FRAME: 0952

Access Court St. St. St. St. St.

Executed this	
WITNESSED:	Jun Young I. F.E.
withtesten:	
Signstore	
Date	
Type or print name of witness	
Executed this 5 day of	Tilly 2016.
	Hýun Soo JUNG
WITNESSED:	•
Signature	
Date	

246-144 255-221 AS-10-20-24-1-1-1-1

Type or print name of witness