

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT5200630

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the DOCKET NUMBER Q236489 previously recorded on Reel 045659 Frame 0776. Assignor(s) hereby confirms the Q238489.
CONVEYING PARTY DATA	
Name	Execution Date
DOO-SEOP CHOI	03/18/2018
GI-YEONG GIM	03/07/2018
YOUNG-SU MOON	03/08/2018
YOUNG-HOON JEONG	03/08/2018
RECEIVING PARTY DATA	
Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU, GYEONGGI-DO
City:	SUWON-SI
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15761715
CORRESPONDENCE DATA	
Fax Number:	(202)293-7860
<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>	
Phone:	202-293-7060
Email:	sughrue@sughrue.com, dbutler@sughrue.com
Correspondent Name:	SUGHRUE MION, PLLC
Address Line 1:	2100 PENNSYLVANIA AVENUE N.W.
Address Line 4:	WASHINGTON, D.C. 20037
ATTORNEY DOCKET NUMBER:	Q238489
NAME OF SUBMITTER:	DENNIS E BUTLER - TEAMS
SIGNATURE:	/Dennis Butler/
DATE SIGNED:	10/23/2018
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 9	

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 30, 2018

PTAS

SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON, DC 20037

504828569

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 03/20/2018

REEL/FRAME: 045659/0776
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: ~~Q236489~~ Q238489

ASSIGNOR:

CHOI, DOO-SEOP

DOC DATE: 03/18/2018

ASSIGNOR:

GIM, GI-YEONG

DOC DATE: 03/07/2018

ASSIGNOR:

MOON, YOUNG-SU

DOC DATE: 03/08/2018

ASSIGNOR:

JEONG, YOUNG-HOON

DOC DATE: 03/08/2018

ASSIGNEE:

SAMSUNG ELECTRONICS CO., LTD.
129, SAMSUNG-RO, YEONGTONG-GU,
GYEONGGI-DO
SUWON-SI, KOREA, REPUBLIC OF 16677

APPLICATION NUMBER: 15761715

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: LIQUID CRYSTAL DISPLAY DEVICE AND DRIVING METHOD THEREOF

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the DOCKET NUMBER previously recorded on Reel 045659 Frame 0776. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNOR'S INTEREST.
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YOUNG-SU MOON	03/08/2018
YOUNG-HOON JEONG	03/08/2018
RECEIVING PARTY DATA	
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Street Address:	129, SAMSUNG-RO, YEONGTONG-GU, GYEONGGI-DO
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Postal Code:	16677
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15761715
CORRESPONDENCE DATA	
Fax Number:	(202)293-7860
Phone:	202-293-7060
Email:	sughrue@sughrue.com, dbutler@sughrue.com
<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>	
Correspondent Name:	SUGHRUE MION, PLLC
Address Line 1:	2100 PENNSYLVANIA AVENUE N.W.
Address Line 4:	WASHINGTON, D.C. 20037
ATTORNEY DOCKET NUMBER:	Q238489
NAME OF SUBMITTER:	DENNIS E BUTLER - TEAMS
Signature:	/Dennis Butler/

PATENT

REEL: 047288 FRAME: 0759

Date:	05/02/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
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RECEIPT INFORMATION EPAS ID: PAT4942460 Receipt Date: 05/02/2018	

PATENT

REEL 047288 FRAME 0760

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4875306

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DOO-SEOP CHOI	03/18/2018
GI-YEONG GIM	03/07/2018
YOUNG-SU MOON	03/08/2018
YOUNG-HOON JEONG	03/08/2018
RECEIVING PARTY DATA	
Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU, GYEONGGI-DO
City:	SUWON-SI
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15761715
CORRESPONDENCE DATA	
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<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>	
Phone:	202-293-7060
Email:	sughrue@sughrue.com, dbutler@sughrue.com
Correspondent Name:	SUGHRUE MION, PLLC
Address Line 1:	2100 PENNSYLVANIA AVENUE, N.W.
Address Line 2:	SUITE 800
Address Line 4:	WASHINGTON, D.C. 20037
ATTORNEY DOCKET NUMBER:	Q236489
NAME OF SUBMITTER:	DENNIS E BUTLER - TEAMS
SIGNATURE:	/Dennis Butler/
DATE SIGNED:	03/20/2018
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 4	

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

Whereas, We, the undersigned inventors hereinafter called assignors, 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,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, his 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 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, his successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and 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 ☐ The attached application, or directed to:

☒ United States Application or PCT International Application Number PCT/KR2015/012282 filed on November 16, 2015.

The application is entitled:

LIQUID CRYSTAL DISPLAY DEVICE AND DRIVING 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 imprisonment of not more than five (5) years, or both.

NAME OF SOLE OR FIRST INVENTOR:	
Given Name (first and middle [if any]) Doo-seop	Family Name or Surname CHOI
Inventor's signature 	Date 2018.03.18
Residence: Anyang-si, Republic of Korea	
Mailing Address: 305-608, 21, Pyeongchon-daero 21beon-gil, Dongan-gu Anyang-si Gyeonggi-do 14075 Republic of Korea	
NAME OF SECOND INVENTOR:	
Given Name (first and middle [if any]) Gi-yeong	Family Name or Surname GIM
Inventor's signature	Date
Residence: Yongin-si, Republic of Korea	
Mailing Address: 106-502, 2720, Yonggu-daero, Sujil-gu Yongin-si Gyeonggi-do 16868 Republic of Korea	
NAME OF THIRD INVENTOR:	
Given Name (first and middle [if any]) Young-su	Family Name or Surname MOON
Inventor's signature	Date
Residence: Seoul, Republic of Korea	
Mailing Address: 220-1103, 70, Mokdongseo-ro Yangcheon-gu Seoul 07981 Republic of Korea	
NAME OF FOURTH INVENTOR:	
Given Name (first and middle [if any]) Young-hoon	Family Name or Surname JEONG
Inventor's signature	Date
Residence: Suwon-si, Republic of Korea	
Mailing Address: 8705-1303, 70, Wellbeing town-ro, Yeongtong-gu Suwon-si Gyeonggi-do 16222 Republic of Korea	

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

Whereas, We, the undersigned inventors hereinafter called assignors, 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,

We, the above named assignors, 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 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 we hereby agree that the assignee may apply for foreign Letters Patent on the invention and 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:

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☒ United States Application or PCT International Application Number PCT/KR2015/012282 filed on November 16, 2015.

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

NAME OF SOLE OR FIRST INVENTOR:	
Given Name (first and middle [if any])	Doo-seop
Family Name or Surname	CHOI
Inventor's signature	Date
Residence: Sejong-si, Republic of Korea	
Mailing Address: 1212-1801, 80, Dalbit-ro, Sejong-si 30064 Republic of Korea	
NAME OF SECOND INVENTOR:	
Given Name (first and middle [if any])	Gi-yeong
Family Name or Surname	GIM
Inventor's signature	Date 2018/03/07
Residence: Yongin-si, Republic of Korea	
Mailing Address: 302-1303, 30, Tanchoonsang-ro, Suji-gu Yongin-si Gyeonggi-do 16866 Republic of Korea	
NAME OF THIRD INVENTOR:	
Given Name (first and middle [if any])	Young-su
Family Name or Surname	MOON
Inventor's signature	Date 2018/3/8
Residence: Seoul, Republic of Korea	
Mailing Address: 215-1203, 70, Mokdongseo-ro Yangcheon-gu Seoul 07981 Republic of Korea	
NAME OF FOURTH INVENTOR:	
Given Name (first and middle [if any])	Young-hoon
Family Name or Surname	JEONG
Inventor's signature	Date 2018. 3.8
Residence: Suwon-si, Republic of Korea	
Mailing Address: 8705-1303, 70, Wellbeing town-ro, Yeongtong-gu Suwon-si Gyeonggi-do 16222 Republic of Korea	