504500110 08/11/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4546814

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
NATURE OF CONVEYANCE:	Corrective Assignment to correct the NAME OF FIRST INVENTOR JE HUN LEE previously recorded on Reel 037222 Frame 0046. Assignor(s) hereby confirms the NAME OF FIRST INVENTOR JE-HUN LEE.	

CONVEYING PARTY DATA

Name	Execution Date
JE-HUN LEE	11/10/2015

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14956058

CORRESPONDENCE DATA

Fax Number: (202)289-7100

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)408-9040
Email: rebushnell@aol.com

Correspondent Name: ROBERT E. BUSHNELL & LAW FIRM

Address Line 1: 2029 K STREET N.W.

Address Line 2: SUITE 600

Address Line 4: WASHINGTON, D.C. 20006-1004

ATTORNEY DOCKET NUMBER:	P60348
NAME OF SUBMITTER:	ROBERT E. BUSHNELL
SIGNATURE:	/Robert E. Bushnell/
DATE SIGNED:	08/11/2017

Total Attachments: 6

source=2-P60348_Exec_Dec_12-01-15---#page1.tif source=2-P60348_Exec_Dec_12-01-15---#page2.tif source=2-P60348_Exec_Dec_12-01-15---#page3.tif source=2-P60348_Exec_Dec_12-01-15---#page4.tif source=P60348 Cover Sheet#page1.tif

PATENT 504500110 REEL: 043531 FRAME: 0539

source=P60348 ROAD#page1.tif

503598795 12/07/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3645425

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JE HUN LEE	11/10/2015

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14956058	

CORRESPONDENCE DATA

Fax Number: (202)289-7100

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)408-9040

Email: rebushnell@aol.com

Correspondent Name: ROBERT E. BUSHNELL & LAW FIRM

Address Line 1: 2029 K STREET N.W.

Address Line 2: SUITE 600

Address Line 4: WASHINGTON, D.C. 20006-1004

ATTORNEY DOCKET NUMBER:	P60348
NAME OF SUBMITTER:	ROBERT E. BUSHNELL
SIGNATURE:	/Robert E. Bushnell/
DATE SIGNED:	12/07/2015

Total Attachments: 4

source=P60348 Assignment12-07-2015-#page1.tif

source=P60348 Assignment12-07-2015-#page2.tif

source=P60348_Assignment12-07-2015-#page3.tif

source=P60348_Assignment12-07-2015-#page4.tif

PTO/AIA/ (11/2012) Docket No. P60348

COMBINED ASSIGNMENT AND DECLARATION (One of Three)

ASSIGNMENT

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that:

IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt and sufficiency of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

ASSIGNEE: SAMSUNG DISPLAY CO., LTD.,

a corporation chartered in and existing under the laws of the Republic of Korea,

ADDRESS: 1 Samsung Ro, Giheung-gu,

Yongin-City, Gyeonggi-do, Republic of Korea

Who is my Assignee, and to the successors and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, including all rights to claim priority, and including the right to sue or otherwise bring action and to collect and receive damages therefrom, for past infringement thereof, and all rights to claim priority under all available International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms in every participating country, and the right to collect reasonable royalties for pre-grant U.S. patent application publications, in and to the invention entitled:

TITLE: THIN FILM TRANSISTOR ARRAY SUBSTRATE AND MANUFACTURING METHOD OF THE SAME

invented by me (*if only one inventor is named below*) or us (*if more than one inventor is named below*) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment, or is more particularly identified as:

executed on even date herewith, or Serial No. 14/956,058	filed in the U.S. Patent & Trademark Office on	1 December 2015	, 01
executed on	·		

and in and to all United States patents which may be granted thereon and therefor, and in and to all certificates of corrections, divisions, continuations, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when granted, to be held and enjoyed by said **Samsung Display Co., Ltd.**, my Assignee, its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made:

AND I grant full power of attorney to my Assignee to submit this Deed of Assignment, including any Annex, to the U.S. Patent & Trademark Office, and to request the U.S. Patent & Trademark Office to record this assignment of the legal title to the Assigned Patents from Assignor to Assignees among the Assignment Records maintained by the U.S. Patent & Trademark Office;

AND I hereby covenant and agree to sign and execute, without receiving any money or other consideration, any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of all substitute applications, certificate of correction, division, continuation, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreement or treaty to which the United States of America adheres;

법무법인 세종 LL-201406-210-1-US0

AND I do hereby authorize and request the Commissioner of Patent & Trademarks to issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request R. E. Bushnell, Reg. No. 27,774, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply the rules of the United States Patent & Trademark Office for recordation of this document. 법무법인 세종_LL-201406-210-1-US0

PTO/AIA/ (11/2012) **Docket No. P60348**

COMBINED ASSIGNMENT AND DECLARATION (Two of Three)

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

As the below named inventor, I hereby declare that this declaration is directed to:

		ý ý			
	The attached application, United States application	or or PCT international applicati	on number	_filed on	
	The above-identified appl	lication was made or authorize	d to be made by me.		
	I believe that I am the original	ginal inventor or an original jo	int inventor of a claimed in	vention in the	application.
to the expriority § 365(a United Scertifica 10-20	d by any amendment refer xamination of this applicat benefits under Title 35, U. of any PCT International States provisional application	reviewed and understand the red to above. I acknowledge tion in accordance with Title 3 S. Code § 119(a)-(d) or § 36:1 application which designated ion(s), listed below and have to that of the application on we rethat of the application on we require that of the application of Korea (Country)	the duty to disclose information of the Code of Federal R (5(b)) of any foreign application at least one country other also identified below any for thich priority is claimed:	ation which is egulations § 1 on(s) for pater than the Unite preign applicated ary 2015	material to patentability and .56. I hereby claim foreign at or inventor's certificate, or d States, or § 119(e) of any
Internat applicat paragrap The Coo	I hereby claim the beneficional application designation is not disclosed in the oh of Title 35, U.S. Code,	it under Title 35, U.S. Code, ing the United States, listed be prior United States or PC § 112, I acknowledge the duty § 1.56(a) which became available.	§ 120, of any United State elow and, insofar as the sur International application to disclose information ma	es application(bject matter o n(s) in the matterial to patent	f each of the claims of this anner provided by the first ability as defined in Title 37,
(Application	on Serial No.)	(Filing Date)	(STATUS: patented, pendi	ng, abandoned)	

IN WITNESS WHEREOF, I 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.

I hereby revoke all previously granted powers of attorney and appoint the following attorneys: Robert E Bushnell, Reg. No. 27774, Michael D Parker, Reg. No. 34973, Joseph G Seeber, Reg. No. 27719, Matthew J Lestina, Reg. No. 44437, George N. Stevens, Reg. No. 36,938, Young James Kim, Reg. No. 56213, Mark Konieczny, Reg. No. 47715, Michael A. Van Lente, Reg. No. 52,314, Xin Li, Reg. No. 72446, Tomoko Yota, Limited Recognition No. L0565, and Chiyat B. Yau, Reg. No. 71330 to prosecute this application and to transact all business in the U.S. Patent & Trademark Office connected therewith and with any divisional, continuation, continuation-in-part, reissue or re-examination application, with full power of appointment and with full power to substitute an associate attorney or agent, and to receive all patents which may issue thereon, and request that all correspondence be addressed to:

Robert E. Bushnell, Attorney-at-Law Customer No. 008439

법무법인 세종_LL-201406-210-1-US0

Suite 600, 2029 "K" Street, N.W.

2 Inventors are being named on separately numbered sheets attached hereto.

PTO/AIA/ (11/2012)

Docket No. P60348

COMBINED ASSIGNMENT AND DECLARATION (Three of Three)

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

LEGAL NAME OF INVENTOR(s)	Date Signed (Optional)	Witness(es)
1)(Seal) Je-Hun LEE	Nov. 10, 2015	

법무법인 세종_LL-201406-210-1-US0

PATENT REEL: 043531 FRAME: 0545

RECORDED: 08/11/2017