

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																				
NATURE OF CONVEYANCE:	ASSIGNMENT																				
CONVEYING PARTY DATA																					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jong-Baek SEON</td> <td>11/16/2012</td> </tr> <tr> <td>Hyun-Jae KIM</td> <td>11/09/2012</td> </tr> <tr> <td>Sang-Yoon LEE</td> <td>11/16/2012</td> </tr> <tr> <td>Myung-Kwan RYU</td> <td>11/16/2012</td> </tr> <tr> <td>Hyun-Soo SHIN</td> <td>11/08/2012</td> </tr> <tr> <td>Kyung-Bae PARK</td> <td>11/16/2012</td> </tr> <tr> <td>Woong-Hee JEONG</td> <td>11/09/2012</td> </tr> <tr> <td>Gun-hee KIM</td> <td>11/09/2012</td> </tr> <tr> <td>Byung-Du AHN</td> <td>11/09/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jong-Baek SEON	11/16/2012	Hyun-Jae KIM	11/09/2012	Sang-Yoon LEE	11/16/2012	Myung-Kwan RYU	11/16/2012	Hyun-Soo SHIN	11/08/2012	Kyung-Bae PARK	11/16/2012	Woong-Hee JEONG	11/09/2012	Gun-hee KIM	11/09/2012	Byung-Du AHN	11/09/2012
Name	Execution Date																				
Jong-Baek SEON	11/16/2012																				
Hyun-Jae KIM	11/09/2012																				
Sang-Yoon LEE	11/16/2012																				
Myung-Kwan RYU	11/16/2012																				
Hyun-Soo SHIN	11/08/2012																				
Kyung-Bae PARK	11/16/2012																				
Woong-Hee JEONG	11/09/2012																				
Gun-hee KIM	11/09/2012																				
Byung-Du AHN	11/09/2012																				
RECEIVING PARTY DATA																					
<table border="1"> <tr> <td>Name:</td> <td>Samsung Electronics Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>129, Samsung-ro, Yeongtong-gu, Suwon-si,</td> </tr> <tr> <td>City:</td> <td>Gyeonggi-do</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>443-742</td> </tr> </table>		Name:	Samsung Electronics Co., Ltd.	Street Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si,	City:	Gyeonggi-do	State/Country:	KOREA, REPUBLIC OF	Postal Code:	443-742										
Name:	Samsung Electronics Co., Ltd.																				
Street Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si,																				
City:	Gyeonggi-do																				
State/Country:	KOREA, REPUBLIC OF																				
Postal Code:	443-742																				
<table border="1"> <tr> <td>Name:</td> <td>Industry-Academic Cooperation Foundation, Yonsei University</td> </tr> <tr> <td>Street Address:</td> <td>Yonsei University, 134, Shinchon-dong, Seodaemoon-gu</td> </tr> <tr> <td>City:</td> <td>Seoul</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>120-749</td> </tr> </table>		Name:	Industry-Academic Cooperation Foundation, Yonsei University	Street Address:	Yonsei University, 134, Shinchon-dong, Seodaemoon-gu	City:	Seoul	State/Country:	KOREA, REPUBLIC OF	Postal Code:	120-749										
Name:	Industry-Academic Cooperation Foundation, Yonsei University																				
Street Address:	Yonsei University, 134, Shinchon-dong, Seodaemoon-gu																				
City:	Seoul																				
State/Country:	KOREA, REPUBLIC OF																				
Postal Code:	120-749																				
PROPERTY NUMBERS Total: 1																					
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13650819</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13650819																
Property Type	Number																				
Application Number:	13650819																				
CORRESPONDENCE DATA																					

CH \$40.00 13650819

Fax Number: 7036688200

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 703-668-8000

Email: dcmailroom@hdp.com

Correspondent Name: John A. Castellano

Address Line 1: 11730 Plaza America Drive, Ste 600

Address Line 2: Harness, Dickey & Pierce, PLC

Address Line 4: Reston, VIRGINIA 20190

ATTORNEY DOCKET NUMBER:	15639-000006/US/DVA
-------------------------	---------------------

NAME OF SUBMITTER:	John A. Castellano
--------------------	--------------------

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

Total Attachments: 8

source=15639000006USDVA_COMBINEDDECASSMT_01APR2013#page1.tif

source=15639000006USDVA_COMBINEDDECASSMT_01APR2013#page2.tif

source=15639000006USDVA_COMBINEDDECASSMT_01APR2013#page3.tif

source=15639000006USDVA_COMBINEDDECASSMT_01APR2013#page4.tif

source=15639000006USDVA_COMBINEDDECASSMT_01APR2013#page5.tif

source=15639000006USDVA_COMBINEDDECASSMT_01APR2013#page6.tif

source=15639000006USDVA_COMBINEDDECASSMT_01APR2013#page7.tif

source=15639000006USDVA_COMBINEDDECASSMT_01APR2013#page8.tif

COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND
ASSIGNMENT FORM¹

The undersigned acknowledges that this document is being used both as an assignment of the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application.

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

Title: SOLUTION COMPOSITION FOR FORMING OXIDE THIN FILM AND ELECTRONIC
DEVICE INCLUDING THE OXIDE THIN FILM

for which Assignor is about to make or has made United States or International application for patent.

WHEREAS, as a below named inventor(s), I/(we) hereby declare that:

Section I. Declaration

This declaration is directed to:

- ☐ The attached U.S. non-provisional patent application, or
- ☒ U.S. non-provisional patent application number 13/650,819, filed on October 12, 2012, or
- ☐ PCT international patent application number _____, filed on _____.

The above-identified application was made or authorized to be made by me (us).

I (we) believe that I am (we are) the original inventor (original joint inventors) of a claimed invention in the above-identified application.

I (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.

¹ This form requires the use of an Application Data Sheet.

SEC Ref No. RD-200902-004-1-US1

Attorney Ref No. 15639-000006/US/DVA

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

Page 1 of 6

PATENT
REEL: 030125 FRAME: 0315

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

Section II. Assignment

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned hereby sell(s) and assign(s) to

Samsung Electronics Co., Ltd.

having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea

Industry-Academic Cooperation Foundation, Yonsei University

having an address at Yonsei University, 134, Shinchon-dong, Seodaemoon-gu, Seoul 120-749, Korea (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section I of this document.

Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-

SEC Ref No. RD-200902-004-1-US1

Attorney Ref No. 15639-000006/US/DVA

examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

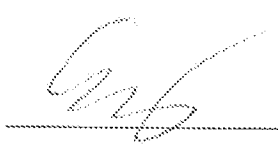
Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of **Harness, Dickey & Pierce, P.L.C.** the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Section III. Inventor(s)/Assignor(s) Signature(s)

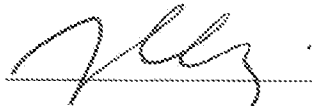
LEGAL NAME OF FIRST INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	SEON	Jong-Baek	

SIGNATURE 	DATE November 16, 2012
---	------------------------

SEC Ref No. RD-200902-004-1-US1

Attorney Ref No. 15639-000006/US/DVA

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

LEGAL NAME OF SECOND INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	KIM	Hyun-Jae	
SIGNATURE  DATE Nov. 7, 2012			

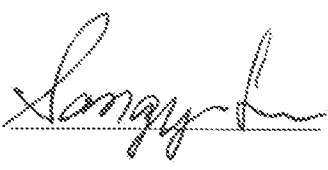
LEGAL NAME OF THIRD INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	LEE	Sang-Yoon	
SIGNATURE _____ DATE _____			

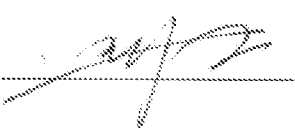
LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	RYU	Myung-Kwan	
SIGNATURE _____ DATE _____			

SEC Ref No. RD-200902-004-1-U51

Attorney Ref No. 15639-000006/US/DVA

LEGAL NAME OF SECOND INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	KIM	Hyun-Jae	
<p>SIGNATURE _____ DATE _____</p>			

LEGAL NAME OF THIRD INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	LEE	Sang-Yoon	
<p>SIGNATURE  DATE November 16, 2012</p>			

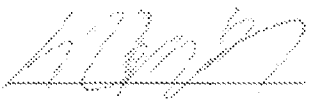
LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	RYU	Myung-Kwan	
<p>SIGNATURE  DATE November 16, 2012</p>			

SEC Ref No. RD-200902-004-1-US1Attorney Ref No. 15639-000006/US/DVA

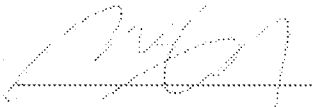
COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

Page 4 of 6

PATENT
REEL: 030125 FRAME: 0319

LEGAL NAME OF FIFTH INVENTOR/ASSIGNOR	Family Name SHIN	First Given Name Hyun-Soo	Second Given Name
<p>SIGNATURE  DATE <u>2012. 11. 2</u></p>			

LEGAL NAME OF SIXTH INVENTOR/ASSIGNOR	Family Name PARK	First Given Name Kyung-Bae	Second Given Name
<p>SIGNATURE _____ DATE _____</p>			

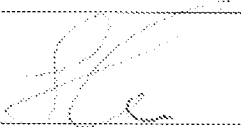
LEGAL NAME OF SEVENTH INVENTOR/ASSIGNOR	Family Name JEONG	First Given Name Woong-Hee	Second Given Name
<p>SIGNATURE  DATE <u>2012. 11. 2</u></p>			

SEC Ref No. RD-200902-004-1-US1Attorney Ref No. 15639-000006/US/DVA

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

Page 5 of 6

LEGAL NAME OF FIFTH INVENTOR/ASSIGNOR	Family Name SHIN	First Given Name Hyun-Soo	Second Given Name
SIGNATURE _____ DATE _____			

LEGAL NAME OF SIXTH INVENTOR/ASSIGNOR	Family Name PARK	First Given Name Kyung-Bae	Second Given Name
SIGNATURE  _____ DATE <u>November 16, 2012</u>			

LEGAL NAME OF SEVENTH INVENTOR/ASSIGNOR	Family Name JEONG	First Given Name Woong-Hee	Second Given Name
SIGNATURE _____ DATE _____			

SEC Ref No. **RD-200902-004-1-US1**Attorney Ref No. **15639-000006/US/DVA**

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

Page 5 of 6

PATENT
REEL: 030125 FRAME: 0321

