

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3240833

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

## CONVEYING PARTY DATA

Name	Execution Date
AYA MIKI	12/01/2014
SHINYA MORITA	12/01/2014
HIROSHI GOTO	12/01/2014
HIROAKI TAO	12/01/2014
TOSHIHIRO KUGIMIYA	12/01/2014
BYUNG DU AHN	02/09/2015
GUN HEE KIM	02/09/2015
JIN HYUN PARK	02/09/2015
YEON HONG KIM	02/09/2015

## RECEIVING PARTY DATA

<b>Name:</b>	KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.)
<b>Street Address:</b>	2-4, WAKINOHAMA-KAIGANDORI 2-CHOME, CHUO-KU
<b>City:</b>	KOBE-SHI, HYOGO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	651-8585
<b>Name:</b>	SAMSUNG DISPLAY CO., LTD.
<b>Street Address:</b>	95, SAMSUNG 2 RO, GIHEUNG-GU
<b>City:</b>	YONGIN-CITY, GYEONGGI-DO
<b>State/Country:</b>	KOREA, REPUBLIC OF

## PROPERTY NUMBERS Total: 1

Property Type	Number
<b>Application Number:</b>	14423838

## CORRESPONDENCE DATA

**Fax Number:** (703)413-2220

*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:** (703) 413-3000

**Email:** abaggett@oblom.com

**Correspondent Name:** OBLON, ET AL.

**Address Line 1:** 1940 DUKE STREET

PATENT

<b>Address Line 4:</b> ALEXANDRIA, VIRGINIA 22314	
<b>ATTORNEY DOCKET NUMBER:</b>	449177US99X PCT
<b>NAME OF SUBMITTER:</b>	ASHLEIGH BAGGETT
<b>SIGNATURE:</b>	/Ashleigh Baggett/
<b>DATE SIGNED:</b>	02/25/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 9</b> source=449177ASGN#page1.tif source=449177ASGN#page2.tif source=449177ASGN#page3.tif source=449177ASGN#page4.tif source=449177ASGN#page5.tif source=449177ASGN#page6.tif source=449177ASGN#page7.tif source=449177ASGN#page8.tif source=449177ASGN#page9.tif	

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES**

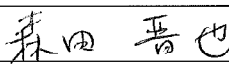
<b>Title of Invention</b>	THIN FILM TRANSISTOR AND DISPLAY DEVICE
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration <input type="checkbox"/> The attached application, or</p> <p>is directed to: <input checked="" type="checkbox"/> United States application or PCT international application number <u>PCT/JP2013/073373</u> filed on <u>August 30, 2013</u></p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>WHEREAS, <u>KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) and</u> <u>Samsung Display Co., Ltd.</u></p> <p>(hereinafter referred to as "ASSIGNEES") having places of business at: <u>2-4, Wakinohama-Kaigandori 2-chome,</u> <u>Chuo-ku, Kobe-shi, Hyogo 651-8585 Japan and 95, Samsung 2 Ro, Giheung-Gu, Yongin-City, Gyeonggi-Do,</u> <u>Korea, respectively</u> are desirous of jointly acquiring interests in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;</p> <p>NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.</p> <p>I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.</p> <p>Further, I agree that I will communicate to said ASSIGNEES or their representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.</p> <p>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.</p>	
LEGAL NAME OF INVENTOR	
Inventor: <u>Aya MIKI</u>	Date: <u>December 1, 2014</u>
Signature: <u>三木 綾</u>	

**OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.**

ATTORNEYS AT LAW  
1940 DUKE STREET  
ALEXANDRIA, VIRGINIA 22314

**PATENT  
REEL: 035027 FRAME: 0776**

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES**

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<p>As the below named inventor, I hereby declare that:</p> <p>This declaration <input type="checkbox"/> The attached application, or</p> <p>is directed to: <input checked="" type="checkbox"/> United States application or PCT international application number <u>PCT/JP2013/073373</u> filed on <u>August 30, 2013</u></p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>WHEREAS, <u>KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) and</u> <u>Samsung Display Co., Ltd.</u></p> <p>(hereinafter referred to as "ASSIGNEES") having places of business at: <u>2-4, Wakinohama-Kaigandori 2-chome,</u> <u>Chuo-ku, Kobe-shi, Hyogo 651-8585 Japan and 95, Samsung 2 Ro, Giheung-Gu, Yongin-City, Gyeonggi-Do,</u> <u>Korea,</u> respectively are desirous of jointly acquiring interests in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;</p> <p>NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.</p> <p>I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.</p> <p>Further, I agree that I will communicate to said ASSIGNEES or their representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.</p> <p>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.</p>	
LEGAL NAME OF INVENTOR	
Inventor: <u>Shinya MORITA</u>	Date: <u>December 1, 2014</u>
Signature: <u></u>	

**OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.**

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**PATENT  
REEL: 035027 FRAME: 0777**

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
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LEGAL NAME OF INVENTOR	
Inventor: <u>Hiroshi GOTO</u>	Date: <u>December 1, 2014</u>
Signature: <u>後藤 裕史</u>	

**OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.**

ATTORNEYS AT LAW  
1940 DUKE STREET  
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**PATENT  
REEL: 035027 FRAME: 0778**

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LEGAL NAME OF INVENTOR	
Inventor: <u>Hiroaki TAO</u>	Date: <u>December 1, 2014</u>
Signature: <u>田尾 博昭</u>	

**OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.**

ATTORNEYS AT LAW  
1940 DUKE STREET  
ALEXANDRIA, VIRGINIA 22314

**PATENT**  
**REEL: 035027 FRAME: 0779**

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LEGAL NAME OF INVENTOR	
Inventor: <u>Toshihiro KUGIMIYA</u>	Date: <u>December 1, 2014</u>
Signature: <u>釘宮 敏 洋</u>	

**OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.**

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1940 DUKE STREET  
ALEXANDRIA, VIRGINIA 22314

**PATENT  
REEL: 035027 FRAME: 0780**

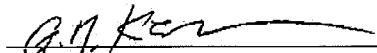
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<b>LEGAL NAME OF INVENTOR</b>	
Inventor: <u>Byung Du AHN</u>	Date: <u>February 9, 2015</u>
Signature: 	

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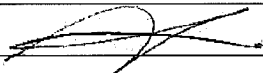
<b>Title of Invention</b>	<b>THIN FILM TRANSISTOR AND DISPLAY DEVICE</b>
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration <input type="checkbox"/> The attached application, or</p> <p>is directed to: <input checked="" type="checkbox"/> United States application or PCT international application number <u>PCT/JP2013/073373</u> filed on <u>August 30, 2013</u></p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>WHEREAS, <u>KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) and</u> <u>Samsung Display Co., Ltd.</u> (hereinafter referred to as "ASSIGNEES") having places of business at: <u>2-4, Wakinohama-Kaigandori 2-chome,</u> <u>Chuo-ku, Kobe-shi, Hyogo 651-8585 Japan and 95, Samsung 2 Ro, Giheung-Gu, Yongin-City, Gyeonggi-Do,</u> <u>Korea,</u> respectively are desirous of jointly acquiring interests in the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;</p> <p>NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.</p> <p>I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.</p> <p>Further, I agree that I will communicate to said ASSIGNEES or their representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.</p> <p>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.</p>	
<p><b>LEGAL NAME OF INVENTOR</b></p> <p>Inventor: <u>Gun Hee KIM</u> Date: <u>February 9, 2015</u></p> <p>Signature: <u></u></p>	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.  
ATTORNEYS AT LAW  
1940 DUKE STREET  
ALEXANDRIA, VIRGINIA 22314

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES**

Title of Invention	THIN FILM TRANSISTOR AND DISPLAY DEVICE
As the below named inventor, I hereby declare that:	
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I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me, had this Assignment and sale not been made.	
Further, I agree that I will communicate to said ASSIGNEES or their representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.	
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.	
LEGAL NAME OF INVENTOR	
Inventor: <u>Jin Hyun PARK</u>	Date: <u>February 9, 2015</u>
Signature: 	

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES**

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<b>LEGAL NAME OF INVENTOR</b>	
Inventor: <u>Yeon Hong KIM</u>	Date: <u>February 9, 2015</u>
Signature: 	

**OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.**  
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