503194216 02/25/2015

#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3240833

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	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**

KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.)	
2-4, WAKINOHAMA-KAIGANDORI 2-CHOME, CHUO-KU	
KOBE-SHI, HYOGO	
JAPAN	
651-8585	
SAMSUNG DISPLAY CO., LTD.	
95, SAMSUNG 2 RO, GIHEUNG-GU	
YONGIN-CITY, GYEONGGI-DO	
KOREA, REPUBLIC OF	

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	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@oblon.com
Correspondent Name: OBLON, ET AL.
Address Line 1: 1940 DUKE STREET

PATENT

503194216 REEL: 035027 FRAME: 0774

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

Title of THIN FILM TRANSISTOR AND DISPLAY DEVICE Invention		
As the below named inventor, I hereby declare that:		
This declaration   The attached application, or		
is directed to:   United States application or PCT international application number PCT/JP2013/073373 filed on August 30, 2013		
The above-identified application was made or 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.		
WHEREAS, KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) and Samsung Display Co., Ltd.		
(hereinafter referred to as "ASSIGNEES") having places of business at: 2-4, Wakinohama-Kaigandori 2-chome, Chuo-ku, Kobe-shi, Hyogo 651-8585 Japan and 95, Samsung 2 Ro, Giheung-Gu, Yongin-City, Gyeonggi-Do, Korea, 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;		
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.		
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: Aya MIKI Date: December 1, 2014		
Signature: 三大 该		

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

THIN FILM TRANSISTOR AND DISPLAY DEVICE

Title of

Invention			
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LEGAL NAME OF	INVENTOR		
Inventor: Shinya	MORITA	Date: December 1, 2014	
Signature:	森曲 吾也		

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

THIN FILM TRANSISTOR AND DISPLAY DEVICE

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	ge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by nt of not more than five (5) years, or both.		
LEGAL NAME OF	INVENTOR		
Inventor: Hiroshi	GOTO Date: December 1, 2014		
Signature:	<b>冷藤 裕</b> 史		

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention THIN FILM TRANSISTOR AND DISPLAY DEVICE	
As the below named inventor, I hereby declare that:	
This declaration  The attached application, or	
is directed to: United States application or PCT international application number PCT/JP2013/07337 filed on August 30, 2013	<u>'3</u>
The above-identified application was made or 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.
WHEREAS, KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) and Samsung Display Co., Ltd.	. <u></u>
(hereinafter referred to as "ASSIGNEES") having places of business at: 2-4, Wakinohama-Kaigandori 2 Chuo-ku, Kobe-shi, Hyogo 651-8585 Japan and 95, Samsung 2 Ro, Giheung-Gu, Yongin-City, Gyeo Korea, respectively are desirous of jointly acquiring interests in the entire right, title and interest in and invention and in and to any Letters Patent that may be granted therefore in the United States and its t possessions and in any and all foreign countries;	nggi-Do, d to said
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I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. fine or imprisonment of not more than five (5) years, or both.	1001 by
LEGAL NAME OF INVENTOR	
Inventor: Hiroaki TAO Date: December 1, 2014	t 
Signature: 田尾博服	

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of

Title of Invention	THIN FILM TRANSISTOR AND DISPLAY DEVICE
Invention	
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This declaration	The attached application, or
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	BUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) and msung Display Co., Ltd.
<u>Chuo-ku, Kobe-shi</u> <u>Korea</u> , respectively invention and in an	It to as "ASSIGNEES") having places of business at: 2-4, Wakinohama-Kaigandori 2-chome, Hyogo 651-8585 Japan and 95, Samsung 2 Ro, Giheung-Gu, Yongin-City, Gyeonggi-Do, are desirous of jointly acquiring interests in the entire right, title and interest in and to said and to any Letters Patent that may be granted therefore in the United States and its territorial any and all foreign countries;
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fine or imprisonmen	ge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by it of not more than five (5) years, or both.
LEGAL NAME OF	INVENTOR
Inventor: Toshihir	o KUGIMIYA Date: December 1, 2014
Signature:	<u></u> 会 安 洋

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention	THIN FILM TRANSISTOR AND D	ISPLAY DEVICE	
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LEGAL NAME OF	INVENTOR		
Inventor: Byung D	u AHN	Date: February 9, 2015	
Signature:	7		

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW

1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention THIN FILM TRANSISTOR AND DISPLAY DEVICE		
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LEGAL NAME OF INVENTOR		
Inventor: Gun Hee KIM Date: February 9, 2015		
Signature: G1 Kar		

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

**REEL: 035027 FRAME: 0782** 

**PATENT** 

THIN FILM TRANSISTOR AND DISPLAY DEVICE

Invention

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LEGAL NAME OF INVENTOR	production part of
Inventor: Jin Hyun PARK	Date: February 9, 2015
Signature: White Signat	

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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.
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, heir 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 especting 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 Il 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.
hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by ine or imprisonment of not more than five (5) years, or both.
EGAL NAME OF INVENTOR
nventor: Yeon Hong KIM Date: February 9, 2015
ignature:

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PATENT REEL: 035027 FRAME: 0784

**RECORDED: 02/25/2015**