

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	TSUNG-TING TSAI	09/24/2014
	VASUDHA GUPTA	09/23/2014
	CHIN-WEI LIN	09/23/2014
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	Apple Inc.	
<b>Street Address:</b>	1 Infinite Loop	
<b>City:</b>	Cupertino	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	95014	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	14494931	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(415)837-0651	
<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>		
<b>Email:</b>	vavalos@treylawgroup.com	
<b>Correspondent Name:</b>	VICTORIA AVALOS	
<b>Address Line 1:</b>	870 MARKET, SUITE 984	
<b>Address Line 4:</b>	SAN FRANCISCO, CALIFORNIA 94102	
<b>ATTORNEY DOCKET NUMBER:</b>	P20240US4	
<b>NAME OF SUBMITTER:</b>	VICTORIA AVALOS	
<b>SIGNATURE:</b>	/Victoria Avalos/	
<b>DATE SIGNED:</b>	09/24/2014	
<b>Total Attachments: 3</b>		
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A S S I G N M E N T

WHEREAS, We, Tsung-Ting Tsai, Vasudha Gupta, and Chin-Wei Lin, residing respectively in Taipei, Taiwan, Cupertino, California, and Cupertino, California, have made an invention entitled:

SILICON AND SEMICONDUCTING OXIDE THIN-FILM TRANSISTOR  
DISPLAYS

and

(1) are about to make an application for United States Letters Patent therefor, the same having been executed by us on even date herewith

OR

(2) have made an application for United States Letters Patent therefor, the same having been filed on (\_\_\_\_\_) under Application No. (\_\_\_\_\_), in connection with which we hereby authorize and request the assignee's attorneys associated with Customer Number 65015 to insert within the foregoing parentheses the filing date and Application No. of said application when known; and

WHEREAS, APPLE INC., a corporation organized and existing under the laws of the State of California and having an address of 1 Infinite Loop, Cupertino, California 95014, is desirous of acquiring the entire interest in said invention, said United States patent application and in any Letters Patent which may issue thereon;

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) paid, and other good and valuable consideration, the receipt and

sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto the said APPLE INC., its successors, assigns and legal representatives, all right, title and interest in and to said invention and any improvements thereon for all countries of the world, and in and to said United States patent application, including any continuations, continuations-in-part and divisions thereof, and any substitute applications therefor, and including the right to claim priority under the International Convention based on said patent application, and any patent which may issue thereon, and any reissues of the same; and all right, title and interest in and to every patent application filed or to be filed on said invention in any other country, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any and all patents which may issue thereon, and any reissues and extensions of the same;

and we hereby authorize and request competent authorities to grant and issue any and all patents on said invention to the said APPLE INC. as the assignee of the entire interest therein; and we further agree to execute upon request of the assignee such additional documents, if any, as are necessary and proper to secure patent protection on said invention throughout all countries of the world, and to otherwise give full effect to and perfect the rights of the assignee under this Assignment.

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

9/24 / 2014

Date

Tsung-Ting Tsai

Tsung-Ting Tsai

P20240US4

Sept 23, 2014

Date

9/23, 2014

Date

Vasudha Gupta

Vasudha Gupta

Chin-Wei Lin

Chin-Wei Lin