

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	SHIH CHANG CHANG	03/26/2014
	MING-CHIN HUNG	03/27/2014
	CHENG-HO YU	03/26/2014
	TING-KUO CHANG	03/26/2014
	ABBAS JAMSHIDI ROUDBARI	03/26/2014
	SHANG-CHIH LIN	03/26/2014
	KYUNG-WOOK KIM	03/26/2014
	CHUN-YAO HUANG	03/26/2014
	SZU-HSIEN LEE	03/26/2014
	YU-CHENG CHEN	03/26/2014
	HIROSHI OSAWA	03/26/2014
RECEIVING PARTY DATA		
Name:	Apple Inc.	
Street Address:	1 Infinite Loop	
City:	Cupertino	
State/Country:	CALIFORNIA	
Postal Code:	95014	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	14228070
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NAME OF SUBMITTER:	TIFFANY R. ISHIHARA	
PATENT		

SIGNATURE:	/Tiffany R. Ishihara/
DATE SIGNED:	03/28/2014
Total Attachments: 3 source=P20240US1_Assignment#page1.tif source=P20240US1_Assignment#page2.tif source=P20240US1_Assignment#page3.tif	

A S S I G N M E N T

WHEREAS, We, Shih Chang Chang, Ming-Chin Hung, Cheng-Ho Yu, Ting-Kuo Chang, Abbas Jamshidi Roudbari, Shang-Chih Lin, Kyung-Wook Kim, Chun-Yao Huang, Szu-Hsien Lee, Yu-Cheng Chen, and Hiroshi Osawa, residing respectively in Cupertino, California, Cupertino, California, Cupertino, California, Cupertino, California, Sunnyvale, California, Los Altos, California, Cupertino, California, Cupertino, California, Cupertino, California, San Jose, California, Sunnyvale, California, have made an invention entitled:

LIQUID CRYSTAL DISPLAYS WITH OXIDE-BASED THIN-FILM
TRANSISTORS

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.

P20240US1

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

2014.3.26
Date

Shih Chang Chang
Shih Chang Chang

3/27/2014
Date

M.C. Hung
Ming-Chin Hung

2014/3/26
Date

Cheng-Ho Yu
Cheng-Ho Yu

2/26/2014
Date

Ting-Kuo Chang
Ting-Kuo Chang

03/26/2014
Date

Abbas Jamshidi Roudbari
Abbas Jamshidi Roudbari

3/26/2014
Date

Shang-Chih Lin
Shang-Chih Lin

3/26/2014
Date

Kyung-Wook Kim
Kyung-Wook Kim

3/26/2014
Date

Chun-Yao Huang
Chun-Yao Huang

2014/3/26
Date

Szu-Hsien Lee
Szu-Hsien Lee

2014/3/26
Date

Yu-Cheng Chen
Yu-Cheng Chen

3/26/2014
Date

Hiroshi Osawa
Hiroshi Osawa