502079592 09/29/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ming-Chin Hung	09/24/2012
Young Bae Park	09/21/2012
Chun-Yao Huang	09/24/2012
Shih Chang Chang	09/21/2012
John Z. Zhong	09/24/2012

RECEIVING PARTY DATA

Name:	Apple Inc.
Street Address:	One Infinite Loop
City:	Cupertino
State/Country:	CALIFORNIA
Postal Code:	95014

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13629547

CORRESPONDENCE DATA

Fax Number: 3036293450

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

Phone: 303-629-3435

Email: brown.valerie@dorsey.com

Correspondent Name: Valerie H. Brown
Address Line 1: 1400 Wewatta Street

Address Line 2: Suite 400

Address Line 4: Denver, COLORADO 80202-5549

ATTORNEY DOCKET NUMBER:	P233205.US.01
NAME OF SUBMITTER:	Valerie H. Brown
	PATENT

REEL: 029051 FRAME: 0621

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Total Attachments: 5

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PATENT REEL: 029051 FRAME: 0622

ASSIGNMENT

WHEREAS, we, Ming-Chin Hung, whose address is One Infinite Loop, MS: 83-D, Cupertino, California 95014; Young Bae Park, whose address is One Infinite Loop, MS: 83-D, Cupertino, California 95014; Chun-Yao Huang, whose address is One Infinite Loop, MS: 83-D, Cupertino, California 95014; Shih Chang Chang, whose address is One Infinite Loop, MS: 83-D, Cupertino California 95014; and John Z. Zhong, whose address is One Infinite Loop, MS: 83-D, Cupertino, California 95014 (hereinafter, individually and collectively the "Assignor"), have invented certain new and useful systems, devices, and methods disclosed and described in a utility application for Letters Patent in the United States ("U.S."), titled "Connection to First Metal Layer in Thin Film Transistor Process," which can be identified in the United States Patent and Trademark Office ("USPTO") by Application No. 13/629,547, filed on September 27, 2012 (the "Utility Application") with attorney docket no. P14472 (P233205.US.01); and

WHEREAS, Assignor desires to assign any and all right, title and interest to said Utility Application, and any provisional, non-provisional, continuation, continuation-in-part, divisional, international, foreign, regional and convention applications corresponding thereto, and any and all Letters Patent of the United States and countries and regions foreign thereto which may grant or have granted thereto or be lodged in relation thereto, any reissue or reexamination thereof or to be obtained therefor, any renewals, or substitutes thereof, and any and all priority rights or priority claims, International Convention rights, any and all rights to collect past damages for infringement of any and all Letters Patent of the United States and countries and regions foreign thereto which may be published, which may grant, or have granted thereto or be lodged in relation thereto, and other benefits accruing to or to accrue to Assignor with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto (the "Patent Rights");

WHEREAS, Apple Inc., a corporation organized and existing under the laws of the State of California, and having its principal place of business at One Infinite Loop, Cupertino, California 95014 (the "Assignee"), desires to acquire any and all, right, title, and interest of Assignor in and to the invention(s), the Patent Rights, and in, to, and under any and all Letters Patent to be obtained therefor;

NOW THEREFORE, for the sum of \$1.00 and other good and valuable consideration to Assignor in hand paid, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transfer and by these presents does hereby sell, assign and transfer to the said Assignee, and said Assignee's legal representatives, successors and assigns, any and all of the entire right, title and interest in and to the invention(s), Patent Rights, and any and all Letters Patent to be obtained therefor;

UPON SAID CONSIDERATION, the Assignor hereby covenants and agrees with the said Assignee that it will not execute any writing or do any act whatsoever conflicting with these presents, and that it will, at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, provisionals, non-provisionals, continuations, continuations-in-part, continuing prosecutions, divisionals, renewals, reissues, reexamined or extended Letters Patent of the United States, or of any and all foreign countries, on said Patent Rights, and execute confirmatory assignments or acknowledgments of this assignment as necessary for full enjoyment of the Patent Rights and for recording in foreign patent offices, and

in enforcing any rights or choses in action accruing as a result of such Patent Rights, by giving testimony in any proceedings or transactions involving such Patent Rights, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties;

UPON SAID CONSIDERATION, Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party;

ASSIGNOR HEREBY AUTHORIZES said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and all foreign countries and regions, in its own name if desired, and additionally to claim priority to the filing date of the Utility Application and otherwise take advantage of the provisions of any international conventions.

ASSIGNOR HEREBY AUTHORIZES Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the application number, filing date, and title of the Utility Application once known.

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date:	09/24/2012	By: M. C. Jong
		Ming-Chin Hung
the da	IN WITNESS WHEREOF, the Assignor te indicated below.	hereunto has executed this Assignment upon
Date:		Ву:
		By: Young Bae Park
the dat	IN WITNESS WHEREOF, the Assignor te indicated below.	hereunto has executed this Assignment upon
Date:	9/24/2012	By: Chun-Yao Huang
		Chun-Yao Huabg
the dat	IN WITNESS WHEREOF, the Assignor te indicated below.	hereunto has executed this Assignment upon
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Shih Chang Chang

in enforcing any rights or choses in action accruing as a result of such Patent Rights, by giving testimony in any proceedings or transactions involving such Patent Rights, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties;

UPON SAID CONSIDERATION, Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party;

ASSIGNOR HEREBY AUTHORIZES said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and all foreign countries and regions, in its own name if desired, and additionally to claim priority to the filing date of the Utility Application and otherwise take advantage of the provisions of any international conventions.

ASSIGNOR HEREBY AUTHORIZES Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the application number, filing date, and title of the Utility Application once known.

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date:	By:
	By: Ming-Chin Hung
the date indicated below.	F, the Assignor hereunto has executed this Assignment upon By: Mount Property Pr
•	Young Bae Park
the date indicated below.	F, the Assignor hereunto has executed this Assignment upon
Date:	By: Chun-Yao Huang
IN WITNESS WHEREC the date indicated below.	F, the Assignor hereunto has executed this Assignment upon
Date:	Ву:
	Shih Chang Chang

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	Attomey Docket No. P14472US1 (P233205.US.01)
testimony in any proceedings or t preliminary statements and other	in action accruing as a result of such Patent Rights, by giving ransactions involving such Patent Rights, and by executing affidavits, it being understood that the foregoing covenant and to the benefit of, the assigns and legal representatives of both
the right, title, and authority to ex-	ATION, Assignor represents and warrants that Assignor has ecute this Assignment and to convey any and all right, title, and that Assignor has not conveyed nor will convey hereafter all or diparty;
anyone it may properly designate countries and regions, in its own	THORIZES said Assignee, its successors, and assigns, or it, to apply for Letters Patent in the U.S. and any and all foreign name if desired, and additionally to claim priority to the filing otherwise take advantage of the provisions of any international
ASSIGNOR HEREBY AU may properly designate, to insert of the Utility Application once kno	THORIZES Assignee, its successors and assigns, or anyone it in this instrument the application number, filing date, and title wn.
IN WITNESS WHEREOF, the date indicated below.	the Assignor hereunto has executed this Assignment upon
Date:	By: Ming-Chin Hung
IN WITNESS WHEREOF, the date indicated below.	the Assignor hereunto has executed this Assignment upon
Date:	By: Young Bae Park
	the Assignor hereunto has executed this Assignment upon
IN WITNESS WHEREOF, the date indicated below.	
	By: Chun-Yao Huang
the date indicated below. Date:	By: Chun-Yao Huang the Assignor hereunto has executed this Assignment upon
the date indicated below. Date: IN WITNESS WHEREOF,	Chun-Yao Huang the Assignor hereunto has executed this Assignment upon
the date indicated below. Date: IN WITNESS WHEREOF, the date indicated below.	the Assignor hereunto has executed this Assignment upon By: Shih Charl Charl

PATENT REEL: 029051 FRAME: 0626

Attorney Docket No. P14472US1 (P233205.US.01)

	IN WITNESS WHEREOF, the Assigne indicated below.	nor hereunto has executed this Assignment upon
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Date:	9/24/12	By:
	ž	John Z. Zhong

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