#### 503451971 08/25/2015

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3498597

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### **CONVEYING PARTY DATA**

Name	Execution Date
MING KUN SHI	07/13/2015
JASON O. METTLER	08/10/2015
HILBERT T. KWAN	07/27/2015
CHRISTOPHER BRUNI	08/04/2015
QI TIAN	07/25/2015
JING ZHANG	07/14/2015
HOWARD E. BUJTOR	07/27/2015
STEPHEN V. JAYANATHAN	07/29/2015
HOUTAN R. FARAHANI	08/19/2015

#### **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:	14834315

#### **CORRESPONDENCE DATA**

Fax Number: (916)444-2100

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: 9164441000

Email: ipdocketing@DowneyBrand.com, rmena@downeybrand.com

**Correspondent Name:** DOWNEY BRAND LLP

Address Line 1: ATTN: IP DOCKETING, P.O. BOX 569 Address Line 4: CUPERTINO, CALIFORNIA 95015

ATTORNEY DOCKET NUMBER:	P25880US1/21590US.1
NAME OF SUBMITTER:	KAREN K. MCSWAIN

SIGNATURE:	/Karen K. McSwain/
DATE SIGNED:	08/25/2015
Total Attachments: 9	
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Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

## TREATMENT OF SUBSTRATE SUB-SURFACE

(Atty. Docket No. P25880US1/21590US.1)  which bears application No. 14/834,315 which is a provisional application.
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:
1) Sell, assign and transfer to Apple Inc., a California corporation having a place of business at 1 Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications thereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).
<ol> <li>Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.</li> </ol>
3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.
Signed on the date indicated beside my signature.
Signature: Sking Kun Shit Date: 07/13/20/5

(Any. Docket No. P25880US1/21590US.1)

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Signature:

Typed Name:

Date: <u>Aug 10 2015</u>

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Signed on the date indicated beside my signature.
Signature: Date: 7/27//3

(Atty. Docket No. P25880US1/21590US.1)

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Signed on the date indicated beside my signature.
Signature: Date: Aug 4, 2015 Typed Name: Christopher BRUNI

(Atty. Docket No. P25880US1/21590US.1).

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:	Signed on the date indicated beside my signature.
	Signature: Oi Tian Date: 2015-7-25  Typed Name: Oction

v1,1

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6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.
Signed on the date indicated beside my signature.
Signature: Date: 2015. 7.14  Typed Name: Jing ZHANG

(Atty. Docket No. P25880US1/21590US.1)

**PATENT** 

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Signed on the date indicated beside my signature.
Signature: Date: 1-27-15 Typed Name: Howard E, BUJTOR

(Atty. Docket No. P25880US1/21590US.1)

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the ASSIGNEE, its successor	covenants and conditions of the resigns and other legal reputor's heirs, legal representatives.	resentatives, and shall be	
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Signed on the date inc	dicated beside my signature.		
Signature: Stephen v	L VIII		1/2015

(Atty, Docket No. P25880US1/21590US.1)

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**RECORDED: 08/25/2015** 

PATENT REEL: 036418 FRAME: 0840

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