

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3498597

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
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
<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>
Application Number:	14834315
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(916)444-2100
<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>Phone:</b>	9164441000
<b>Email:</b>	ipdocketing@DowneyBrand.com, rmena@downeybrand.com
<b>Correspondent Name:</b>	DOWNEY BRAND LLP
<b>Address Line 1:</b>	ATTN: IP DOCKETING, P.O. BOX 569
<b>Address Line 4:</b>	CUPERTINO, CALIFORNIA 95015
<b>ATTORNEY DOCKET NUMBER:</b>	P25880US1/21590US.1
<b>NAME OF SUBMITTER:</b>	KAREN K. MCSWAIN

<b>SIGNATURE:</b>	/Karen K. McSwain/
<b>DATE SIGNED:</b>	08/25/2015
<b>Total Attachments: 9</b> source=P25880US1_Assignments#page1.tif source=P25880US1_Assignments#page2.tif source=P25880US1_Assignments#page3.tif source=P25880US1_Assignments#page4.tif source=P25880US1_Assignments#page5.tif source=P25880US1_Assignments#page6.tif source=P25880US1_Assignments#page7.tif source=P25880US1_Assignments#page8.tif source=P25880US1_Assignments#page9.tif	

## ASSIGNMENT OF PATENT APPLICATION

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).
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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: Shing  
Typed Name: Ming Kun SHI

Date: 07/13/2015

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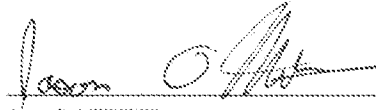
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Signature: \_\_\_\_\_

Typed Name: \_\_\_\_\_

  
Jason O. METTLER

Date: \_\_\_\_\_

Aug 10 2015

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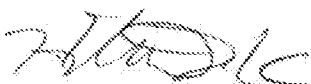
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Signed on the date indicated beside my signature.

Signature: \_\_\_\_\_

Typed Name: \_\_\_\_\_



Hilbert T. KWAN

Date: \_\_\_\_\_

7/22/15

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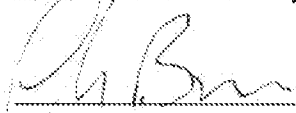
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Signed on the date indicated beside my signature.

Signature:  
Typed Name:

  
Christopher BRUNI

Date:

Aug 4, 2015

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Signed on the date indicated beside my signature.

Signature: Qi Tian  
Typed Name: QI TIAN

Date: 2015-7-25

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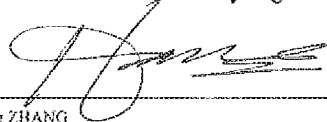
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Signed on the date indicated beside my signature.

Signature:

Typed Name:

  
Jing ZHANG

Date:

2015.7.14



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Signature:   
Typed Name: Howard E. BLUTOR

Date: 7-27-15

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Signature: \_\_\_\_\_

Typed Name: \_\_\_\_\_

Stephen V. JAYNATHAN

Date: \_\_\_\_\_

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Date: \_\_\_\_\_

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