

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Shawn X. Arnold</td> <td>08/24/2012</td> </tr> <tr> <td>Douglas P. Kidd</td> <td>08/22/2012</td> </tr> <tr> <td>Sean A. Mayo</td> <td>08/22/2012</td> </tr> <tr> <td>Scott P. Mullins</td> <td>08/22/2012</td> </tr> <tr> <td>Dennis R. Pyper</td> <td>08/22/2012</td> </tr> <tr> <td>Jeffrey M. Thoma</td> <td>08/22/2012</td> </tr> <tr> <td>Kenju Tojima</td> <td>08/24/2012</td> </tr> </tbody> </table>		Name	Execution Date	Shawn X. Arnold	08/24/2012	Douglas P. Kidd	08/22/2012	Sean A. Mayo	08/22/2012	Scott P. Mullins	08/22/2012	Dennis R. Pyper	08/22/2012	Jeffrey M. Thoma	08/22/2012	Kenju Tojima	08/24/2012
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<table border="1"> <tr> <td>Name:</td> <td>Apple Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1 Infinite Loop</td> </tr> <tr> <td>City:</td> <td>Cupertino</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95014</td> </tr> </table>		Name:	Apple Inc.	Street Address:	1 Infinite Loop	City:	Cupertino	State/Country:	CALIFORNIA	Postal Code:	95014						
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CORRESPONDENCE DATA																	
Fax Number:	4083413098																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Phone:	408.341.3000																
Email:	psmiley@wcsr.com																
Correspondent Name:	WOMBLE CARLYLE SANDRIDGE & RICE LLP																
Address Line 1:	10050 North Wolfe Road, Suite 260																
Address Line 2:	Attn: Michael J. Ferrazano																
Address Line 4:	Cupertino, CALIFORNIA 95014																
ATTORNEY DOCKET NUMBER:	P13335US1/10750US.1																

CH \$40.00 13595976

NAME OF SUBMITTER:

Benjamin D. Wigger

Total Attachments: 2

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ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

THREE DIMENSIONAL PASSIVE MULTI-COMPONENT STRUCTURES

(Atty. Docket No. P13353US1/10750US.1), (check one)

- for which I have executed a U.S. patent application on even date herewith. (Accompanying)
 which bears U.S. application No. 13/595,976. (Not accompanying)
 which is a U.S. provisional application. (Accompanying)

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 in any and all improvements and inventions disclosed in, applications based upon, and patents granted upon (including foreign patents and the right to claim priority), the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
- 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.

1) Signature: _____
Typed Name: _____

Shawn X. ARNOLD

Date: 8/24/12

2) Signature: _____
Typed Name: _____


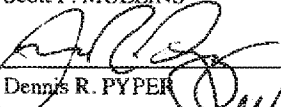
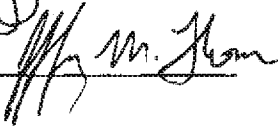

Douglas P. KIDD

Date: 8/22/12

3) Signature: _____
Typed Name: _____

Sean A. MAYO

Date: 8/22/12

- 4) Signature:  Date: 8/22/12
Typed Name: Scott P. MULLINS
- 5) Signature:  Date: 8/22/12
Typed Name: Dennis R. PYPER
- 6) Signature:  Date: 8/22/2012
Typed Name: Jeffrey M. THOMA
- 7) Signature:  Date: 8/24/2012
Typed Name: Kenyu OJIMA