

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

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>Eric Smith</td><td>10/24/2011</td></tr><tr><td>Bryan R. Hinch</td><td>10/24/2011</td></tr><tr><td>Tommee So</td><td>11/01/2011</td></tr></tbody></table>	Name	Execution Date	Eric Smith	10/24/2011	Bryan R. Hinch	10/24/2011	Tommee So	11/01/2011	
Name	Execution Date								
Eric Smith	10/24/2011								
Bryan R. Hinch	10/24/2011								
Tommee So	11/01/2011								
RECEIVING PARTY DATA									
Name:	Apple Inc.								
Street Address:	1 Infinite Loop								
City:	Cupertino								
State/Country:	CALIFORNIA								
Postal Code:	95014								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13286982</td></tr></tbody></table>	Property Type	Number	Application Number:	13286982					
Property Type	Number								
Application Number:	13286982								
CORRESPONDENCE DATA									
Fax Number:	(415)576-0300								
Phone:	415-576-0200								
Email:	dbullock@kilpatricktownsend.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	Kilpatrick Townsend & Stockton LLP								
Address Line 1:	Two Embarcadero Center								
Address Line 2:	Eighth Floor								
Address Line 4:	San Francisco, CALIFORNIA 94111-3834								
ATTORNEY DOCKET NUMBER:	90911-822162								
NAME OF SUBMITTER:	J. Matthew Zigmant								
Total Attachments: 1 source=822162#page1.tif									

OP \$40.00 13286982

501717505

PATENT
REEL: 027194 FRAME: 0556

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Eric Smith of Palo Alto, CA; Bryan R. Hinch of Mountain View, CA; and Tommee So of Milpitas, CA, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: TIME-DOMAIN MULTIPLEXING OF POWER AND DATA

Date(s) of execution of Declaration: 10/24/11, 10/24/11, 11/1/11

Filing Date: 11-1-11

Application No.: 13/286 782 ; and

WHEREAS, APPLE INC., a corporation of the state of California, located at 1 Infinite Loop, Cupertino, CA 95014, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignor, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

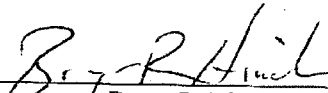
Assignors hereby authorize and request Kilpatrick Townsend & Stockton LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 2011/10/24


Eric Smith

Dated: 2011/10/24


Bryan R. Hinch

Dated: 2011/11/1


Tommee So