

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE:                                                                                                                                                                                                                                                                                                                                                                                                                     | NEW ASSIGNMENT     |               |                |                     |                 |                  |            |                |            |                   |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|----------------|---------------------|-----------------|------------------|------------|----------------|------------|-------------------|------------|
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                                                                                                                                                                | ASSIGNMENT         |               |                |                     |                 |                  |            |                |            |                   |            |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                          |                    |               |                |                     |                 |                  |            |                |            |                   |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Joseph P. Bratt</td> <td>12/21/2009</td> </tr> <tr> <td>Peter F. Holland</td> <td>12/21/2009</td> </tr> <tr> <td>Shing Choo</td> <td>12/18/2009</td> </tr> <tr> <td>Timothy J. Millet</td> <td>01/07/2010</td> </tr> </tbody> </table> |                    | Name          | Execution Date | Joseph P. Bratt     | 12/21/2009      | Peter F. Holland | 12/21/2009 | Shing Choo     | 12/18/2009 | Timothy J. Millet | 01/07/2010 |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                 | Execution Date     |               |                |                     |                 |                  |            |                |            |                   |            |
| Joseph P. Bratt                                                                                                                                                                                                                                                                                                                                                                                                                      | 12/21/2009         |               |                |                     |                 |                  |            |                |            |                   |            |
| Peter F. Holland                                                                                                                                                                                                                                                                                                                                                                                                                     | 12/21/2009         |               |                |                     |                 |                  |            |                |            |                   |            |
| Shing Choo                                                                                                                                                                                                                                                                                                                                                                                                                           | 12/18/2009         |               |                |                     |                 |                  |            |                |            |                   |            |
| Timothy J. Millet                                                                                                                                                                                                                                                                                                                                                                                                                    | 01/07/2010         |               |                |                     |                 |                  |            |                |            |                   |            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                          |                    |               |                |                     |                 |                  |            |                |            |                   |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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      |
| Name:                                                                                                                                                                                                                                                                                                                                                                                                                                | Apple Inc.         |               |                |                     |                 |                  |            |                |            |                   |            |
| Street Address:                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 Infinite Loop    |               |                |                     |                 |                  |            |                |            |                   |            |
| City:                                                                                                                                                                                                                                                                                                                                                                                                                                | Cupertino          |               |                |                     |                 |                  |            |                |            |                   |            |
| State/Country:                                                                                                                                                                                                                                                                                                                                                                                                                       | CALIFORNIA         |               |                |                     |                 |                  |            |                |            |                   |            |
| Postal Code:                                                                                                                                                                                                                                                                                                                                                                                                                         | 95014              |               |                |                     |                 |                  |            |                |            |                   |            |
| PROPERTY NUMBERS Total: 1                                                                                                                                                                                                                                                                                                                                                                                                            |                    |               |                |                     |                 |                  |            |                |            |                   |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12685166</td> </tr> </tbody> </table>                                                                                                                                                                    |                    | Property Type | Number         | Application Number: | 12685166        |                  |            |                |            |                   |            |
| Property Type                                                                                                                                                                                                                                                                                                                                                                                                                        | Number             |               |                |                     |                 |                  |            |                |            |                   |            |
| Application Number:                                                                                                                                                                                                                                                                                                                                                                                                                  | 12685166           |               |                |                     |                 |                  |            |                |            |                   |            |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                           |                    |               |                |                     |                 |                  |            |                |            |                   |            |
| <p>Fax Number: (512)853-8801</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 5128538800</p> <p>Email: dpoudrier@intprop.com</p> <p>Correspondent Name: Lawrence J. Merkel</p> <p>Address Line 1: P.O. Box 398</p> <p>Address Line 4: Austin, TEXAS 78767-0398</p>                                                                                                          |                    |               |                |                     |                 |                  |            |                |            |                   |            |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                                                                              | 5888-11500/LJM     |               |                |                     |                 |                  |            |                |            |                   |            |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                                                                                                                   | Lawrence J. Merkel |               |                |                     |                 |                  |            |                |            |                   |            |
| <p>Total Attachments: 4</p> <p>source=Assignment#page 1.tif</p>                                                                                                                                                                                                                                                                                                                                                                      |                    |               |                |                     |                 |                  |            |                |            |                   |            |

CH \$40.00 12685166

**501061649**

**PATENT**  
**REEL: 023759 FRAME: 0293**

source=Assignment#page2.tif  
source=Assignment2#page1.tif  
source=Assignment2#page2.tif

### ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned does hereby:

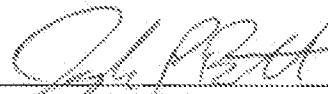
SELL, ASSIGN AND TRANSFER to Apple Inc. (the "Assignee"), a corporation organized and existing under and by virtue of the laws of the State of California, and having its principal place of business at 1 Infinite Loop, Cupertino, CA 95014, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, and is entitled PARAMETER FIFO, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assigns.

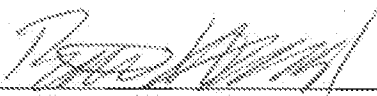
(Signature)   
Name: Joseph M. Bratt

Date: 12/21/09

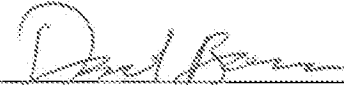
Witness:  
Signature: 

Date: 12/21/09

Print Name: David Bowman

(Signature)   
Name: Peter F. Holland

Date: 12/21/2009

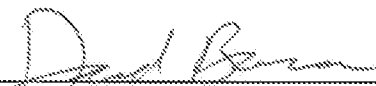
Witness:  
Signature: 

Date: 12/21/09

Print Name: David Bowman

(Signature)   
Name: Shing Choo

Date: 12/18/09

Witness:  
Signature: 

Date: 12/21/09

Print Name: David Bowman

(Signature) \_\_\_\_\_  
Name: Timothy J. Millet

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

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

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

Print Name: \_\_\_\_\_

Lawrence J. Merkel  
Meyertons, Hood, Kivlin, Kowert & Goetzl, P.C.  
P.O. Box 398  
Austin, TX 78767-0398

### ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER to Apple Inc. (the "Assignee"), a corporation organized and existing under and by virtue of the laws of the State of California, and having its principal place of business at 1 Infinite Loop, Cupertino, CA 95014, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, and is entitled PARAMETER FIFO, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assigns.

Docket No. 5888-11600  
P8421US1

(Signature) \_\_\_\_\_ Date: \_\_\_\_\_  
Name: Joseph P. Bratt

Witness: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

(Signature) \_\_\_\_\_ Date: \_\_\_\_\_  
Name: Peter F. Holland

Witness: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

(Signature) \_\_\_\_\_ Date: \_\_\_\_\_  
Name: Shing Horng Choo

Witness: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

---

(Signature) Timothy J. Millet Date: Jan 7, 2010  
Name: Timothy J. Millet

Witness: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Lawrence J. Merkel  
Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.  
P.O. Box 398  
Austin, TX 78767-0398