

## 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>Giridhar Sreenivasa Murthy</td> <td>06/05/2012</td> </tr> <tr> <td>Alan B. Heirich</td> <td>06/05/2012</td> </tr> <tr> <td>David Hayward</td> <td>06/05/2012</td> </tr> </tbody> </table>		Name	Execution Date	Giridhar Sreenivasa Murthy	06/05/2012	Alan B. Heirich	06/05/2012	David Hayward	06/05/2012		
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RECEIVING PARTY DATA											
<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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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>13533364</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13533364						
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Application Number:	13533364										
CORRESPONDENCE DATA											
<p>Fax Number: (832)446-2424</p> <p>Phone: 832-446-2400</p> <p>Email: WCPATENTS@COUNSELIP.COM</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: (Apple) WONG, CABELLO, LUTSCH, RUTHERFOR</p> <p>Address Line 1: 20333 Tomball Parkway</p> <p>Address Line 2: SUITE 600</p> <p>Address Line 4: HOUSTON, TEXAS 77070</p>											
ATTORNEY DOCKET NUMBER:	P13279US1 (119-0296US)										
NAME OF SUBMITTER:	Traci Landgraf										
<p>Total Attachments: 2</p> <p>source=P13279US1_Assignment#page1.tif</p> <p>source=P13279US1_Assignment#page2.tif</p>											

CH \$40.00 13533364

## ASSIGNMENT

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

SELL, ASSIGN AND TRANSFER to APPLE INC., (the "Assignee"), a corporation of California having a place of business at 1 Infinite Loop, Cupertino, California 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 identified above, such application and all divisional, continuing, continuation-in-part, 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;

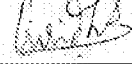
WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

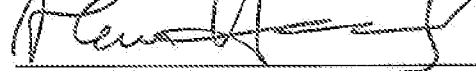
COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, continuation-in-part, substitute, renewal, reissue and all other patent applications on any and all such improvements; 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;

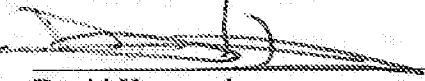
TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the application for United States Letters Patent entitled: RENDER TREE CACHING ("APPLICATION"), which:

- ☒ is to be filed herewith;
- ☐ was filed on \_\_\_\_\_, now bearing U.S. Serial Number \_\_\_\_\_ and for which a Declaration was executed by INVENTOR on the date(s) below; and

Executed on 06/05/2012 by   
Date Giridhar Sreenivasa Murthy

Executed on 6/5/2012 by   
Date Alan B. Heirich

Executed on 6/5/2012 by   
Date David Hayward