### PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Ravi Karapatti Ramaswami	04/17/2012
Vasu P. Ganti	04/30/2012
Anh Hoang	04/17/2012

#### **RECEIVING PARTY DATA**

Name:	Apple Inc.
Street Address:	1 Infinite Loop
City:	Cupertino
State/Country:	CALIFORNIA
Postal Code:	95014

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13459659

### **CORRESPONDENCE DATA**

 Fax Number:
 (512)853-8801

 Phone:
 512-853-8800

 Email:
 ppolnick@intprop.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Meyertons Hood Kivlin Kowert & Goetzel

Address Line 1: P.O. BOX 398

Address Line 4: Austin, TEXAS 78767-0398

ATTORNEY DOCKET NUMBER:	5888-42901
NAME OF SUBMITTER:	Rory D. Rankin

Total Attachments: 6

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PATENT REEL: 028128 FRAME: 0444 13459659

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> PATENT REEL: 028128 FRAME: 0445

### **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 <u>Apple Inc.</u> (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 <u>1 Infinite Loop</u>, <u>Cupertino</u>, <u>CA 95014</u>, 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 <u>TEST CIRCUIT AND METHODS FOR SPEED CHARACTERIZATION</u>, 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;

Docket No. 5888-42901 P12584US1

COVE assigns, repres assigns and no	sentatives and successors of the un minees of the Assigns.	ndersigned and extend to the successors,
(Signature) F Name:	Ravi Karapatti Ramaswami	Date: 4/17/2012
(Signature) Name:	Vasu P. Ganti	Date:
(Signature)	Anh Hoang	Date:

COVENANT AND AGREE that the above is and will be binding on the heirs,

Customer No. 81310
Rory D. Rankin
Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P.O. Box 398
Austin, TX 78767-0398

Age to the property

Page 2

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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)		Date:
Name:	Ravi Karapatti Ramaswami	
(Signature) _ Name:	Wasu P. Ganti	Date: 4/30/12
(Signature) _ Name:	Anh Hoang	Date:

Customer No. 81310
Rory D. Rankin
Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
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Docket No. 5888-42901 P12584US1

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(Signature) _		Date:
Name:	Ravi Karapatti Ramaswami	Debrum and Conference of the State of the St
(Signature) _ Name:	Vasu P. Ganti	Date:
(Signature)	Anh Hoang	Date: 04 17 12

Customer No. 81310

Rory D. Rankin Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. P.O. Box 398 Austin, TX 78767-0398