

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5366371

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the TO REMOVE THE HYPHENATION IN THE FIRST NAME OF SIXTH INVENTOR previously recorded on Reel 038988 Frame 0013. Assignor(s) hereby confirms the SIXTH INVENTOR'S NAME SHOULD BE "CHIA YIAW" NOT CHIA-YIAW..

## CONVEYING PARTY DATA

Name	Execution Date
HSIN-YUO LIU	06/06/2016
PETER M. AGBOH	06/07/2016
MOHIT NARANG	06/07/2016
INDRANIL S. SEN	06/07/2016
NICHOLAS MCDONNELL	06/06/2016
CHIA YIAW CHONG	06/07/2016

## RECEIVING PARTY DATA

<b>Name:</b>	APPLE INC.
<b>Street Address:</b>	ONE APPLE PARK WAY
<b>City:</b>	CUPERTINO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95014

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15189874

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*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

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<b>ATTORNEY DOCKET NUMBER:</b>	APPL:0646
<b>NAME OF SUBMITTER:</b>	MICHAEL G. FLETCHER
<b>SIGNATURE:</b>	/Michael G. Fletcher/

PATENT

<b>DATE SIGNED:</b>	02/08/2019
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**Total Attachments: 10**  
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## UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUNE 23, 2016

PTAS

MICHAEL G. FLETCHER  
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# 503884473

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RECORDATION DATE: 06/22/2016

REEL/FRAME: 038989/0013  
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: P29529US1 / APPL:0646

ASSIGNOR:

LIU, HSIN-YUO

DOC DATE: 06/06/2016

ASSIGNOR:

AGBOH, PETER M.

DOC DATE: 06/07/2016

ASSIGNOR:

NARANG, MOHIT

DOC DATE: 06/07/2016

ASSIGNOR:

SEN, INDRANIL S.

DOC DATE: 06/07/2016

ASSIGNOR:

MCDONNELL, NICHOLAS M.

DOC DATE: 06/06/2016

ASSIGNOR:

CHONG, CHIA-YIAW

DOC DATE: 06/07/2016

ASSIGNEE:

APPLE INC.  
1 INFINITE LOOP  
CUPERTINO, CALIFORNIA 95014

APPLICATION NUMBER: 15189874

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: MULTI-RADIO FILTERING FRONT-END CIRCUITRY FOR TRANSCEIVER  
SYSTEMS

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION



United States Patent and Trademark Office

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**PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1  
Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
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NICHOLAS M. MCDONNELL	06/06/2016
CHIA-YIAW CHONG	06/07/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	APPLE INC.
<b>Street Address:</b>	1 Infinite Loop
<b>City:</b>	Cupertino
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95014
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15189874

**PATENT****REEL: 048288 FRAME: 0451**

**CORRESPONDENCE DATA**

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**Phone:** 281-970-4545  
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**Address Line 1:** P.O. BOX 692289  
**Address Line 2:** FLETCHER YODER  
**Address Line 4:** HOUSTON, TEXAS 77269-2289

**ATTORNEY DOCKET NUMBER:**

P29529US1 / APPL:0646

**NAME OF SUBMITTER:**

MICHAEL G. FLETCHER

**Signature:**

/Michael G. Fletcher/

**Date:**

06/22/2016

**Total Attachments: 6**

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**RECEIPT INFORMATION**

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**PATENT**

**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 of the State of California, having a 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 is entitled "**MULTI-RADIO FILTERING FRONT-END CIRCUITRY FOR TRANSCEIVER SYSTEMS**," and which may be further identified below, 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, including all provisional and non-provisional applications, 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;

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

<u>Additional Application Information</u>	
U.S. Provisional Application Serial No. _____,	filed on _____
U.S. Non-Provisional Application Serial No. _____,	filed on _____
International Application Serial No. _____,	filed on _____

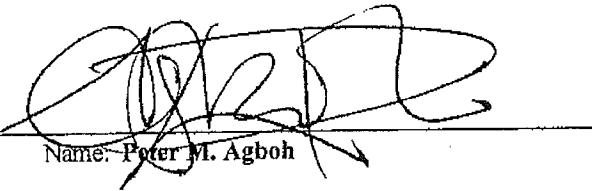
Inventor 1:

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Name: **Hsin-Yuo Liu**

Date: 6/6/16

Inventor 2:

(Signature):



Name: Peter M. Agboh

Date:

6/7/2016



Inventor 3:

(Signature):   
Name: Mohit Narang

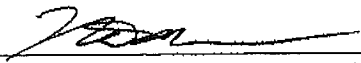
Date: 06/07/2016

Inventor 4:

(Signature):  \_\_\_\_\_  
Name: **Indranil S. Sen**

Date: 06/07/16

**Inventor 5:**

(Signature):  \_\_\_\_\_  
Name: Nicholas M. McDonnell

Date: 6/6/16 \_\_\_\_\_

Inventor 6:

(Signature):   
Name: Chia Yiau Chong

Date: 06/07/2016