504535680 09/06/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Gregory B. Arndt	08/11/2017
Christopher C. Painter	08/02/2017

RECEIVING PARTY DATA

Name:	Apple Inc.
Street Address:	1 Infinite Loop
City:	Cupertino
State/Country:	CALIFORNIA
Postal Code:	95014-2094

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15692164

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ATTORNEY DOCKET NUMBER:	18962-0949001
NAME OF SUBMITTER:	SARAH E. HOKE
SIGNATURE:	/Sarah E. Hoke/
DATE SIGNED:	09/06/2017

Total Attachments: 2

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> **PATENT** REEL: 043511 FRAME: 0234 504535680

Attorney Docket No.: 18962-0949001 / Client Ref:P29188US1

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS, Gregory B. Arndt, Christopher C. Painter, hereby sell, assign, and transfer to Apple Inc. (CALIFORNIA corporation), having offices located at 1 Infinite Loop, Cupertino, California 95014-2094, and its successors, assigns and legal representatives (collectively, "ASSIGNEE") all of the right, title and interest of ASSIGNORS throughout the world in and to any and all inventions and improvements which are the subject of a patent document entitled

DUTY-CYCLED PHASE SHIFTER FOR ANGULAR RATE SENSOR

uu		
(a)	U.S. patent application executed on , entitled as above, listing the above named persons as Inven-	tors.
(b)	U.S. patent application filed on August 31, 2017 \boxtimes under Application No. $15/692,164$ \square with Express Mail No. (Application Number not yet known).	
(c)	U.S. Patent No.: issued	

and which is found in

An attorney of record, or the attorney filing the application, is authorized and requested by the execution of this assignment to insert into this assignment the execution date of the application and/or the filing date and serial number of the application when officially known.

This assignment includes the foregoing patent application or patent; all legal equivalents thereof in any foreign country and all patents issuing therefrom; all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements; and the right to claim priority based on the filing date of the foregoing patent application or patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. ASSIGNORS authorize ASSIGNEE to apply in all countries in the name of ASSIGNORS or in the name of ASSIGNEE for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment.

ASSIGNORS further covenant for themselves and their respective heirs, legal representatives and assigns to provide to ASSIGNEE promptly upon the request of ASSIGNEE all pertinent facts and documents relating to said invention and said patents and legal equivalents as may be known and accessible to ASSIGNORS and to testify as to the same in any interference, litigation, or proceeding relating thereto and promptly to execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said inventions and improvements and said patents and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

ASSIGNORS request the Commissioner of Patents and Trademarks to issue said patents of the United States and any reissue or extension thereof to the ASSIGNEE.

Assignment Page 1 of 2

Attorney Docket No.: 18962-0949001 / Client Ref:P29188US1

Executed this

1 day of 1 1 1 20 1

Executed this

2nd day of August 2013

Signature of Inventor

Gregory B. Arndt

Signature of Inventor

Christopher C. Painter

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