504542962 09/12/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:			NEW ASSIGNMENT			
NATURE OF CONVEYANCE:			ASSIGNMENT			
CONVEYING PARTY	ΑΤΑ					
		1	Name	Execution Date		
NADIM KHLAT				09/12/2017		
JEAN-FREDERIC CHIRON				09/12/2017		
RECEIVING PARTY D	ΑΤΑ					
Name:	QORVO	DUS,	INC.			
Street Address:	7628 TI	7628 THORNDIKE ROAD				
City:	GREEN	GREENSBORO				
State/Country:	NORTH	NORTH CAROLINA				
Postal Code:	27409					
PROPERTY NUMBERS Total: 1 Property Type			Number			
			Number			
Application Number:		15701	759			
CORRESPONDENCE						
. ,		• •	312-1249 mail address first, if that is und	waaaaful it will be cont		
			-mail address first; if that is uns at is unsuccessful, it will be sen			
		919-23	38-2300			
Email: wper		wperk	ins@wt-ip.com			
•			ROW & TERRANOVA, P.L.L.C.			
			PINEDALE SPRINGS WAY			
Address Line 4:	1	CARY	, NORTH CAROLINA 27511			
ATTORNEY DOCKET NUMBER:			2867-2108			
NAME OF SUBMITTER:	AME OF SUBMITTER:		WARREN PERKINS			
SIGNATURE:			/Warren Perkins/			
	DATE SIGNED:		09/12/2017			
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE.

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Title of Invention	ACOUSTIC FILTER EMPLOYING INDUCTIVE COUPLING
As the below name	d inventor, I hereby declare that:
This declaration is	directed to: X The attached application; or X United States application or PCT international application number, filed on .
The above-identifi	ed application is made or authorized to be made by me.
I believe that I am application.	the original inventor or an original joint inventor of a claimed invention in the
I hereby acknowle U.S.C. 1001 by fir	dge that any willful false statement made in this declaration is punishable under 18 ie or imprisonment of not more than five (5) years, or both.
Delaware and bav Carolina, 27409 (I title, and interest i	o US. Inc., a corporation duly organized and existing under the laws of the state of ing a principal place of business at 7628 Thorndike Road, Greensborn, North pereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, in and to said invention as described in the specification executed by me concurrently and all Letters Patent which shall be granted therefor.
consideration, the sold, assigned, tra right, title and into all Letters Patent and all continuation the same to be be and the use and be Patent may be gra	RE, To All Whom It May Concern, be it known that for good and valuable receipt and sufficiency of which is hereby acknowledged. I, the said assignor, have insferred and set over unto the said ASSIGNEE, its successors and assigns, the entire crest in and to the above-mentioned application and invention and in and to any and of the United States which may hereafter be granted therefor, and in any and to any ons, continuations-in-part, substitutions, divisions or reissues of said Letters Patent, d and enjoyed by the said ASSIGNEE, for its interest, and for its own use and behalf, shalf of its successors and assigns, to the full end of the term for which said Letters inted as fully and entirely as the same would have been held and enjoyed by me bad ad sale not been made.
I, the said assigned namely U.S. prov	r, transfer and set over unto the said ASSIGNEE the rights to the priority application, isional application 62/394,824 filed on September 15, 2016.
successors and as lawful owner of t above-mentioned	deration aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its signs, that at the time of the execution and delivery of these presents I am a joint and the entire right, title and interest in and to the invention, application and Letters Patern and that the same are unencumbered, and that I have good right and lawful authority the same in the manner herein set forth.
successors and as	deration aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its signs, that I will, whenever its counsel or the counsel of its successors and assigns.

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substitution of, or any other proceeding in connection with said application, including interference proceedings, is lawful and desirable, sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue of the same without charge to the said ASSIGNEE, its successors or assigns, but at its or their expense.

I hereby request the Commissioner for Patents to issue the Letters Patent in accordance with this instrument.

For the consideration aforesaid, I have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, assigns or nonance, the entire right, title and interest in and to any and all Letters Patient for said invention which may be granted in countries foreign to the United States and in and to any applications for Letters Patient which may be filed for said invention in countries foreign to the United States and empower the said ASSIGNEE, its successors, assigns or nominees to apply for Letters Patient or other form of protection on said invention in its own name or in the name of its successor, assignee, or nominee, in any and all countries where it may desire to file such application and where said application may be filed by another than the inventor; and I hereby covenant and agree to sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for procurement of Letters Patient, or other form of protection, for said invention, for said invention or inventions in countries foreign to the United States, and for further investing or confirming the right and title therein to the ASSIGNEE, its successors, assignee, or nominee, without charge to the said ASSIGNEE, its successor, assignee, or nominee to further investing or confirming the right and title therein to the ASSIGNEE, its successors, assignee, or nominee, but at its or their expense.

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IN WITNESS WHEREOF, I hereunto set my hand and seal.

LEGAL NAME OF INVENTOR

Inventor: Nadim Khła allen I Signature:

September 2014

PATENT REEL: 043558 FRAME: 0435

2867-2108 / QID16210

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE						
Title of Invention	ACOUSTIC FILTER EMPLOYING INDUCTIVE COUPLING					
As the below name	d inventor, I hereby declare that:					
This declaration is directed to: The attached application; or United States application or PCT international application number , filed on .						
The above-identifie	d application is made or authorized to be made by me.					
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.						
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.						
WHEREAS, <u>Oorvo US</u> , Inc., a corporation duly organized and existing under the laws of the state of Delaware and having a principal place of business at 7628 Thorndike Road, Greensboro, North Carolina, 27409 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title, and interest in and to said invention as described in the specification executed by me concurrently herewith, and any and all Letters Patent which shall be granted therefor.						
NOW, THEREFORE, To All Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the said assignor, have sold, assigned, transferred and set over unto the said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the above-mentioned application and invention and in and to any and all Letters Patent of the United States which may hereafter be granted therefor, and in any and to any and all continuations, continuations-in-part, substitutions, divisions or reissues of said Letters Patent, the same to be held and enjoyed by the said ASSIGNEE, for its interest, and for its own use and behalf, and the use and behalf of its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.						
	transfer and set over unto the said ASSIGNEE the rights to the priority application, ional application 62/394,824 filed on September 15, 2016.					
And for the consideration aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its successors and assigns, that at the time of the execution and delivery of these presents I am a joint and lawful owner of the entire right, title and interest in and to the invention, application and Letters Patent above-mentioned and that the same are unencumbered, and that I have good right and lawful authority to sell and convey the same in the manner herein set forth.						
successors and assi	ration aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its gns, that I will, whenever its counsel or the counsel of its successors and assigns, shall advise that an amendment, division, continuation, continuation-in-part, or 1					

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substitution of, or any other proceeding in connection with said application, including interference proceedings, is lawful and desirable, sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue of the same without charge to the said ASSIGNEE, its successors or assigns, but at its or their expense.

I hereby request the Commissioner for Patents to issue the Letters Patent in accordance with this instrument.

For the consideration aforesaid, I have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, assigns or nominee, the entire right, title and interest in and to any and all Letters Patent for said invention which may be granted in countries foreign to the United States and in and to any applications for Letters Patent which may be filed for said invention in countries foreign to the United States and empower the said ASSIGNEE, its successors, assigns or nominees to apply for Letters Patent or other form of protection on said invention in its own name or in the name of its successor, assignee, or nominee, in any and all countries where it may desire to file such application and where said application may be filed by another than the inventor; and I hereby covenant and agree to sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for procurement of Letters Patent, or other form of protection, for said invention for said inventions in countries foreign to the United States, and for further investing or confirming the right and title therein to the ASSIGNEE, its successors, assignee, or nominee, without charge to the said ASSIGNEE, its successor, assignee or nominee, but at its or their expense.

IN WITNESS WHEREOF, I hereunto set my hand and seal.

LEGAL NAME OF INVENTOR

Inventor:	Jean-Frederic	Chiron

Date: 2017-9.12

Signature: