06/11/2019 505519480

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5566285

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DERYA DENIZ	05/13/2019
ROBERT KRAFT	06/04/2019
JOHN BELSICK	05/20/2019

RECEIVING PARTY DATA

Name:	QORVO US, INC.	
Street Address:	7628 THORNDIKE ROAD	
City:	GREENSBORO	
State/Country:	NORTH CAROLINA	
Postal Code:	27409	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16359632

CORRESPONDENCE DATA

Fax Number: (612)305-1228

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.

Phone: 6123051220

Email: cberling@mrgiplaw.com

MUETING, RAASCH & GEBHARDT, P.A. Correspondent Name: Address Line 1: 111 THIRD AVENUE SOUTH - SUITE 350

Address Line 4: MINNEAPOLIS, MINNESOTA 55401

TTORNEY DOCKET NUMBER: 0468.017320US12		
NAME OF SUBMITTER: LOTTA KIURU-RIBAR		
SIGNATURE:	/Lotta Kiuru-Ribar/	
ATE SIGNED: 06/11/2019		

Total Attachments: 3

source=Assignment-executed - combined#page1.tif source=Assignment-executed - combined#page2.tif source=Assignment-executed - combined#page3.tif

PATENT REEL: 049435 FRAME: 0705 505519480

ASSIGNMENT

Whereas We, Derya Deniz, Robert Kraft, and John Belsick, with residences and citizenships as indicated below; have made an invention in

PIEZOELECTRIC BULK LAYERS WITH TILTED C-AXIS ORIENTATION AND METHODS FOR MAKING THE SAME

Filed: March 20, 2019

U.S. Patent Application No.: 16/359,632

and executed an application for Letters Patent of the United States of America based thereon and that claims priority to and/or the benefit of the following applications:

PIEZOELECTRIC BULK LAYERS WITH TILTED C-AXIS ORIENTATION AND METHODS FOR MAKING THE SAME

Filed: March 21, 2018 U.S. Provisional Application No.: 62/646,208

Filed: March 21, 2018 U.S. Provisional Application No.: 62/646,213

Now, therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto QORVO US, INC. ("Assignee"), a corporation of North Carolina, having its principal office at 7628 Thorndike Road, Greensboro, North Carolina 27409, its successors and assigns, our entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Assignee of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made:

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Assignee, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent that may be granted upon any of said applications, to **QORVO US, INC.** as the assignee of the entire right, title, and interest therein.

PATENT REEL: 049435 FRAME: 0706 Assignment to QORVO US, Inc.

Application No. 16/359,632

Filing Date: Fort

March 20, 2019 PIEZOELECTRIC BULK LAYERS WITH TILTED C-AXIS ORIENTATION AND METHODS

FOR MAKING THE SAME

Further, we covenant and agree with the Assignee, and its successors and assigns, that we have not assigned, granted, mortgaged, licensed, or executed any other agreement affecting the rights and property herein conveyed to others and that we possess the full right to convey these rights and property as herein expressed.

If the filing date and application number are not identified in this Assignment at the time of execution, we authorize the Assignce and its agents, legal representatives, successors and assigns, to insert such information into this Assignment and/or true and correct copies thereof at a later date.

In witness whereof, we have hereunto signed our names on the days and years set forth below.

<u>De</u> n		05/13/2019
Name: V Residence: Citizenship:	Derya Deniz 9832 Beaver Dam Lane McKinney, Texas 75071 US	Date
Name: Residence: Citizenship:	Robert Kraft 8400 Beatton Court Plano, Texas 75025 US	Date

Residence:

Name:

2653 NW Rainbow Ridge Drive

Bend, Oregon 97703

Citizenship:

US

05-20-19

Date

Page 2 of 2

Assignment to **QORVO US**, Inc.

Page 2 of 2

Application No. 16/359,632 Filing Date:

March 20, 2019

For:

PIEZOELECTRIC BULK LAYERS WITH TILTED C-AXIS ORIENTATION AND METHODS

FOR MAKING THE SAME

Further, we covenant and agree with the Assignee, and its successors and assigns, that we have not assigned, granted, mortgaged, licensed, or executed any other agreement affecting the rights and property herein conveyed to others and that we possess the full right to convey these rights and property as herein expressed.

If the filing date and application number are not identified in this Assignment at the time of execution, we authorize the Assignee and its agents, legal representatives, successors and assigns, to insert such information into this Assignment and/or true and correct copies thereof at a later date.

In witness whereof, we have hereunto signed our names on the days and years set forth below.

Name

Derva Deniz

9832 Beaver Dam Lane

McKinney, Texas 75071

Citizenship:

Residence:

Date

Name:

Robert Kraft

Residence:

8400 Beatton Court

Plano, Texas 7502%

Citizenship: US

Name:

John Belsick

Residence:

2653 NW Rainbow Ridge Drive

Bend, Oregon 97703

Citizenship:

US

Date