PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Rodolfo E. Diaz	12/18/2017
Mahkamehossadat Mostafavi	12/18/2017

RECEIVING PARTY DATA

Name:	ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY
Street Address:	1475 NORTH SCOTTSDALE ROAD
Internal Address:	SKY SONG SUITE 200
City:	SCOTTSDALE
State/Country:	ARIZONA
Postal Code:	85257-3538

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15849120

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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.

Correspondent Name: HEATHER L. FLANAGAN
Address Line 1: FISH & RICHARDSON P.C.

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Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	22193-0144001
NAME OF SUBMITTER:	VERONICA JUAREZ
SIGNATURE:	/Veronica Juarez/
DATE SIGNED:	02/23/2018

Total Attachments: 6

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PATENT 504790369 REEL: 045014 FRAME: 0632

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> PATENT REEL: 045014 FRAME: 0633

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, RODOLFO E. DIAZ and MAHKAMEHOSSADAT MOSTAFAVI, each individually assign to ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, a corporation formed under the laws of Arizona and having a principal place of business at 1475 North Scottsdale Road, Sky Song -- Suite 200, Scottsdale, AZ 85257-3538, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "BROADBAND QUAD-RIDGE HORN ANTENNAS," and was filed in the United States Patent and Trademark Office on December 20, 2017 _, as application ______15/849,120 _______ (the "Application"). We authorize the insertion of the filing date and application number above.

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and

declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

/6015D5	Date: 12/18/2017	
Rodolfo E. Diaz		
Witnessed by:		
Signature:	Date:	
Print Name:		
Signature:	Date:	
Print Name:		

Mahkamehossadat Mostafavi	Date:	_
Witnessed by:		
Signature:	Date:	
Print Name:	_	
Signature:	Date:	
Print Name:		
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Assignment Page 3 of 3

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, RODOLFO E. DIAZ and MAHKAMEHOSSADAT MOSTAFAVI, each individually assign to ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, a corporation formed under the laws of Arizona and having a principal place of business at 1475 North Scottsdale Road, Sky Song — Suite 200, Scottsdale, AZ 85257-3538, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "BROADBAND QUAD-RIDGE HORN ANTENNAS," and was filed in the United States Patent and Trademark Office on December 20, 2017, as application 15/849,120 (the "Application"). We authorize the insertion of the filing date and application number above.

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

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Assignment Page 1 of 3

declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

	Date:	
Rodolfo E. Diaz	***************************************	
Witnessed by:		
Signature:	Date:	
Print Name:		
Signature:	Date:	
Print Name:		

Mahkamehossadat Mostafavi	Date:	
Mahkamehossadat Mostafavi		
Witnessed by:		
Signature:	Date:	
Print Name:		
Signature:	Date:	
Print Name:		
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PATENT REEL: 045014 FRAME: 0639