

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5190165

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	GARY AARON HOWARD	10/16/2018
RECEIVING PARTY DATA		
Name:	SENSUS SPECTRUM, LLC	
Street Address:	639 DAVIS DRIVE	
City:	MORRISVILLE	
State/Country:	NORTH CAROLINA	
Postal Code:	27560	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16161225
CORRESPONDENCE DATA		
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<i>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.</i>		
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ATTORNEY DOCKET NUMBER:	170084-00020	
NAME OF SUBMITTER:	CANDI L. RIGGS	
SIGNATURE:	/clr/	
DATE SIGNED:	10/16/2018	
Total Attachments: 3		
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ASSIGNMENT

THIS ASSIGNMENT, made by me; **Gary Aaron Howard**, residing at 3691 Widgeon Way, Eagan, Minnesota 55123;

WITNESSETH: That,

WHEREAS, I am the sole inventor of certain new and useful improvements in **METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR SLOTTED-ALOHA COLLISION IMPROVEMENT BY-POPULATION DENSITY TIMESLOT SELECTION PER RADIO FREQUENCY PROPAGATION PATHLOSS** for which an application has been filed, or is being concurrently filed, in the United States Patent and Trademark Office. I hereby authorize and request Ward and Smith, P.A., to insert here in parentheses (Application No. 16/161,225, filed October 16, 2018) the application number and filing date of said application when known or to file this Assignment concurrently with the application; and

WHEREAS, **SENSUS SPECTRUM, LLC**, a Delaware corporation having a principal place of business at 639 Davis Drive, Morrisville, North Carolina 27560, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said provisional application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

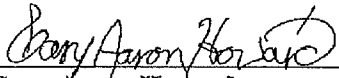
NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and provisional application, and in and to any and all subsequent patent applications which claim the benefit of priority from said provisional application including regular utility, continuations, and continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted for the invention in or on applications claiming the benefit of priority from said provisional application, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereof or therefor, together with the right to claim the benefit of priority from said application in all foreign countries in accordance with the International

Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

I further covenant and agree that, at the time of the execution and delivery of these presents, I possess full title to the invention and provisional application above-mentioned, and that I have the unencumbered right and authority to make this assignment.

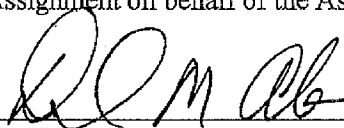
I further covenant and agree to promptly communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and I hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

IN WITNESS WHEREOF, I have hereunto set our hands and seals on this _____ day of
16 October, 2018

 (SEAL)
Gary Aaron Howard

WHEREBY SENSUS SPECTRUM, LLC acknowledges and accepts the assignment;

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 16th day of October, 2018. The undersigned warrants and represents that he/she has the authority to sign this Assignment on behalf of the Assignee, SENSUS SPECTRUM, LLC.

By:  (SEAL)

David Alban
Senior IP Counsel