

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5305587

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	JIANXUN ZHU	12/28/2018
	PETER R KINGET	11/27/2018
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK	
<b>Street Address:</b>	535 WEST 116TH STREET	
<b>Internal Address:</b>	412 LOW MEMORIAL LIBRARY	
<b>City:</b>	NEW YORK	
<b>State/Country:</b>	NEW YORK	
<b>Postal Code:</b>	10027	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	<b>PCT Number:</b>	US1733857
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(212)931-8521	
<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>		
<b>Phone:</b>	2125098800	
<b>Email:</b>	info@byrnepoh.com	
<b>Correspondent Name:</b>	MATTHEW T. BYRNE	
<b>Address Line 1:</b>	11 BROADWAY	
<b>Address Line 2:</b>	SUITE 760	
<b>Address Line 4:</b>	NEW YORK, NEW YORK 10004	
<b>ATTORNEY DOCKET NUMBER:</b>	0315120.350-US2	
<b>NAME OF SUBMITTER:</b>	MATTHEW T. BYRNE	
<b>SIGNATURE:</b>	/Matthew T Byrne/	
<b>DATE SIGNED:</b>	01/02/2019	
<b>Total Attachments: 2</b>		
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source=0315120.350-US2_Assignment (00218785xB6FAD)#page2.tif		

App. No.: PCT/US2017/033857  
Filed: 05/22/2017

Attorney Docket No.: 0315120.350-US2

### **ASSIGNMENT**

WHEREAS, we, the undersigned ("the Assignors"), are the inventors of a certain new and useful invention and discovery entitled "CIRCUITS FOR WIRELESS COMMUNICATION ON MULTIPLE FREQUENCY BANDS" ("the Invention") for which a patent application was filed with the United States Patent and Trademark Office on 05/22/2017 as International Application Number PCT/US2017/033857 ("the Application").

WHEREAS, The Trustees of Columbia University in the City of New York, existing under the laws of New York, having its principal office at 412 Low Memorial Library, 535 West 116<sup>th</sup> Street, New York, NY 10027, which together with its successors and assigns (collectively "the Assignee") is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited.

For valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors hereby assign to Assignee all of Assignors' entire right, title, and interest in and to the Invention, all improvements therein, the Application and all priority rights arising therefrom, and any applications and/or patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the following: the Application; any application that claims priority from the Application (including utility applications, divisionals, continuations, continuations-in-part, international applications, and/or foreign regional and/or national applications); any application from which the Application claims priority (including provisional applications, non-provisional applications, international applications, foreign regional applications, and/or foreign national applications); or any application based in whole or in part on any of the foregoing.

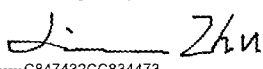
Assignors agree that such Assignors and Assignors' heirs and legal representatives will, without further consideration, cooperate with Assignee in the prosecution of all of the above applications, execute, verify, acknowledge, and deliver all such further papers, including applications for patents and for reissues and extensions therefor, and instruments of assignment and transfer thereof, and will communicate any facts known to Assignors relating to the Invention, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee. Assignors further agree that such Assignors will, without further compensation to Assignors during the term of such Assignors' employment by Assignee and thereafter for reasonable compensation as determined by Assignee, perform such other acts as may be reasonably required when requested by Assignee, including attending depositions, preparing and executing declarations and affidavits and testifying as a witness, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee.

App. No.: PCT/US2017/033857  
Filed: 05/22/2017

Attorney Docket No.: 0315120.350-US2

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on this date 12/28/2018.  
I represent and warrant that I have full power to make this assignment and that the rights, titles,  
and interests assigned are not encumbered by any grant, license, or right heretofore given.

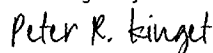
DocuSigned by:

  
C847432CC834473...

Jianxun Zhu  
New York, NY

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on this date 11/27/2018.  
I represent and warrant that I have full power to make this assignment and that the rights, titles,  
and interests assigned are not encumbered by any grant, license, or right heretofore given.

DocuSigned by:

  
72CB56DAE9DF49D...

Peter R. Kinget  
Summit, NJ

Assignee hereby acknowledges receipt of the entire rights, titles and interests set forth above:

The Trustees of Columbia University in the City of New York

By:   
4561F813A287A40C...

Name: Jeffrey M. Sears

Title: Associate General Counsel of Columbia University

Date: 11/30/2018