

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
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MICHAEL PETER KENNEDY	12/06/2019
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16041648
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DATE SIGNED:	12/11/2019
Total Attachments: 2	
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ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

Hongjia Mo, an individual and citizen of China residing in Shanghai, China; and

Michael Peter Kennedy, an individual and citizen of Ireland, residing in Cork, Ireland;

have invented certain new and useful improvements disclosed in United States Patent Application No. 16/041,648, filed July 20, 2018, hereby sell, assign, and transfer the above invention to:

UNIVERSITY COLLEGE CORK – NATIONAL UNIVERSITY OF IRELAND, CORK, an educational institute, having a principal place of business at Western Road, Cork, Ireland (hereinafter "Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the applications for the United States patent that have been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and are entitled:

**METHOD AND APPARATUS FOR REDUCING WANDERING SPURS IN A
FRACTIONAL-N FREQUENCY SYNTHESIZER**

and in and to said application and all design, utility, divisional, continuation, continuation-in-part, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States, including U.S. Provisional Application No. 62/536,370 filed July 24, 2017, and all foreign countries of any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority resulting from the filing of said United States and/or Patent Cooperation Treaty (PCT) application; and in all rights of priority under the International Convention for the Protection of Industrial Property for every country in the Union; agree that said Assignee may apply for and receive a patent or

patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been nor will be made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

Date: 2019.12.10

Signed: Hongjia Mo
Printed Name: Hongjia Mo

Date: 06 DEC. 2019

Signed: M. Peter Kennedy
Printed Name: Michael Peter Kennedy