

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RUPESH KUMAR PARAPATIL SUBRAMANIAN	01/24/2022
TIMOTHY PAUL SPILLER	01/19/2022
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17438441
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<b>NAME OF SUBMITTER:</b>	MARK D. SARALINO
<b>SIGNATURE:</b>	/Mark D. Saralino/
<b>DATE SIGNED:</b>	08/25/2022
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 3</b>	
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source=8PUS01_Dec_Assignment#page2.tif	
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**COMBINED DECLARATION AND ASSIGNMENT USING APPLICATION DATA SHEET (37 CFR 1.76)**  
 (ORIGINAL, DESIGN, NATIONAL STAGE OF PCT)

Title: **METHODS AND APPARATUS FOR COHERENT SIGNAL AMPLIFICATION AND DETECTION**

**I. DECLARATION**

As a below named inventor or joint inventor, I hereby declare that:

This declaration is directed to:

- (a)  the attached application, or
- (b)  United States application or PCT international application number PCT/GB2020/050657  
 filed on 13 March 2020

The above-identified application was made or authorized by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby state that I have reviewed and understand the contents of the above-identified application.

I hereby acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

**PRIORITY CLAIM**

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

- (c)  no such application have been filed.
- (d)  such applications have been filed as follows.

**EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS  
 (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC §119		
GB	1903515.3	14 March 2019	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
				Yes	<input type="checkbox"/> No
				Yes	<input type="checkbox"/> No

## II. ASSIGNMENT

As a below named assignor, for good and valuable consideration acknowledged and received I hereby sell and assign my entire worldwide right, title and interest in the application and the invention(s), so far as concerns the United States and the Territories and Possessions thereof to:

ASSIGNEE:

University of York Research Support Office Heslington Hall York Yorkshire YO10 5DD
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Including:

any and all related patent application(s) in the United States, including continuations, continuations-in-part, divisionals, conversions, renewals, substitutes, reissues, reexaminations, extensions, non-provisional applications, and other applications based in whole or in part upon the invention(s) or upon the application(s);

any and all Letters Patent, renewals, reissues, reexamination certificates and extensions of Letters Patent granted for the invention(s) or upon the application(s); and

every priority right that is or may be predicated upon or arise from the invention(s), the application(s) and the Letters Patent.


I additionally authorize the Assignee to file patent applications in my or the Assignee's name for Letters Patent in any country (by international convention, treaty or otherwise), to be held and enjoyed by the Assignee, its successors and assigns, to the full end of the term or terms for which Letters Patent respectively may be granted, reissued, reexamined or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this Assignment and transfer not been made.

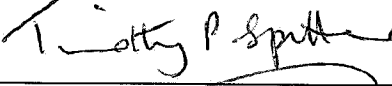
I hereby covenant that I have the full right to convey the entire interests herein assigned, and that I have not executed and will not execute any agreement in conflict herewith and that such assigned rights are not encumbered by any grant, license or other right previously given.

I agree that each time a request is made, and without undue delay, I will execute and deliver all such papers as may be necessary or desirable to perfect the title in and to the invention(s), the application(s) and the Letters Patent, to the Assignee, its successors or assigns.

I agree, without undue delay, to undertake all reasonable acts to assure that said invention(s), patent application(s) and Letters Patent shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly: to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, declarations, powers of attorney, assignments, invention disclaimers and lawful affidavits in form and substance which may be requested by the Assignee; to furnish the Assignee with all facts relating to said invention(s) or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said invention(s); and to testify in any proceedings relating to said invention(s), patent application(s) and Letters Patent.

I authorize the patent attorney of record and/or having power of attorney in the U.S. patent application identified above to insert the serial number and filing date information for the patent application in the appropriate spaces in this document when that information becomes available.

<b>Full Name of Sole or First Inventor and Assignor:</b> Rupesh Kumar Parapatil SUBRAMANIAN			
Inventor's signature:		Date:	24/01/2022
Post Office Address:	c/o The Quantum Communications Hub Information Centre, Market Square University of York Heslington York Yorkshire YO10 5DD		

<b>Full Name of Second Inventor and Assignor:</b> Timothy Paul SPILLER			
Inventor's signature:		Date:	19/01/2022
Post Office Address:	c/o The Quantum Communications Hub Information Centre, Market Square University of York Heslington York Yorkshire YO10 5DD		

CHECK FOR ANY OF THE FOLLOWING ADDED PAGE(S) WHICH  
FORM A PART OF THIS COMBINED DECLARATION AND ASSIGNMENT

\_\_\_\_ Added page to this declaration for divisional, continuation, or continuation-in-part (CIP)  
application.

X This declaration ends with this page.