

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
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PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16434838
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DATE SIGNED:	11/26/2020	
Total Attachments: 3		
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ASSIGNMENT DOCUMENT

THIS ASSIGNMENT is made and entered into by and between Peter O'Brien (ASSIGNOR(S)), and University College Cork, an entity existing under the laws of the IRELAND and having a place of business at Western Road, Cork City, IRELAND ("ASSIGNEE").

WHEREAS, the ASSIGNOR(S) conceived new and useful inventions described in the patent application entitled: "**FIBER-LESS PHOTONIC SYSTEM IN AN INTEGRATED PACKAGE**" to be filed, and subsequently filed, on June 7 2019 with the United States Patent and Trademark Office and having a Serial No. of 16434838 (ASSIGNEE or its agents or representatives have the right to indicate the filing date and serial number assigned to the U.S. Patent Application(s) this document relates to, as further described below).

WHEREAS, the ASSIGNOR(S) are obligated to transfer and desirous of transferring the entire right, title, and interest in the Inventions and the Applications and all rights of priority resulting therefrom to ASSIGNEE and ASSIGNEE is desirous of acquiring the entire right, title, and interest in and to the Inventions and the Applications and all rights of priority resulting therefrom from the ASSIGNOR(S).

NOW THEREFORE, for consideration the adequacy and receipt of which is hereby acknowledged, and other good and valuable consideration, the ASSIGNOR(S) hereby irrevocably sell, transfer, and assign the full and exclusive right, title and interest in and to the Inventions and Applications including any causes of action relating thereto and the right to collect damages recoverable thereon, the right to sue for infringement of any patents issuing therefrom and to collect damages including the right to sue for past infringement therefore, and all rights to continuing, continuations-in-part, divisional, improvement, substitute, renewal, reissue, re-examined and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign

countries on said Inventions or taking priority from any patent application describing the Invention; and all original, reissued or re-examined patents which have been or shall be issued in the United States and all foreign countries on said Inventions; and in and to all rights of priority resulting from the filing of said Applications.

ASSIGNOR(S) hereby authorize and request the Director of the U.S. Patent and Trademark office and all foreign Patent Offices to issue Patents for the subject matter assigned herein to ASSIGNEE for the sole and exclusive benefit of ASSIGNEE to the full end of the term for which said Patent may be granted as fully and entirely as the same would have been held by ASSIGNOR(S) had this assignment and sale not been made.

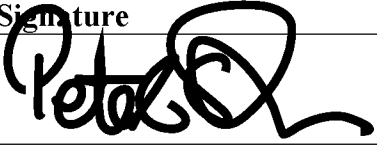
In the event ASSIGNEE is unable, after reasonable effort, to secure ASSIGNORS' signatures on any documents relating to protection or maintenance of the Inventions or Applications, whether because of ASSIGNORS' physical or mental incapacity or for any other reason, ASSIGNOR(S) hereby irrevocably designate and appoint ASSIGNEE and its duly authorized officers and agents as their agent and attorney-in-fact, to act for and on their behalf to execute and file any application or applications and to do all other lawfully permitted acts to further the prosecution, issuance, and maintenance of the Inventions or Applications or improvements to the Inventions or Applications with the same legal force and effect as if personally executed by ASSIGNOR(S).

ASSIGNOR(S) hereby covenant with ASSIGNEE, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the right to the Inventions conveyed herein has been made to another by the undersigned and that the full right to convey as herein expressed is possessed by ASSIGNOR(S) free and clear of all liens, pledges, charges and encumbrances. In cases where such information is missing ASSIGNOR(S) grant ASSIGNEE and agents or representatives of ASSIGNEE the right to modify this document to indicate the filing date and serial number assigned to the U.S. Patent Application(s) this document relates

to. This Assignment may be executed in counterparts, each of which shall be deemed and original.

ACCEPTED AND AGREED TO:

ASSIGNOR(S)

Inventor Signature	Date
Signature:  Peter O'Brien	16/11/2020