

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| FRANK MUELLER | 08/06/2018 |
| HUW MAJOR | 08/06/2018 |
| RECEIVING PARTY DATA | |
| Name: | QIOPTIQ PHOTONICS GMBH & CO. KG |
| Street Address: | KÖNIGSALLEE 23 |
| City: | GÖTTINGEN |
| State/Country: | GERMANY |
| Postal Code: | 37081 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16529992 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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> | |
| Phone: | 6036680300 |
| Email: | ipadm@SHEEHAN.COM |
| Correspondent Name: | SHEEHAN PHINNEY BASS & GREEN, PA |
| Address Line 1: | 1000 ELM STREET, 17TH FLOOR |
| Address Line 4: | MANCHESTER, NEW HAMPSHIRE 03101 |
| ATTORNEY DOCKET NUMBER: | 42562-6237 |
| NAME OF SUBMITTER: | KAREN A.MORIN |
| SIGNATURE: | /Karen A. Morin/ |
| DATE SIGNED: | 08/02/2019 |
| Total Attachments: 2 | |
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ASSIGNMENT

Whereas we, **Frank Mueller** of Muenchen, Germany and **Huw Major** of Southampton, United Kingdom have invented certain new and useful improvements in a:

Non-linear Optical Device with a Broadened Gain Bandwidth

(hereinafter referred to as "Invention") described in a U.S. Patent Application, the specification of which was filed August 2, 2018 as U.S. Application No. 62/713,580;

And, whereas we desire to assign a 100% undivided interest in said Invention, said application disclosing the Invention and any Letters Patent which may be granted therefore to **Qioptiq Photonics GmbH & Co KG, having its place of business at Königsallee 23 37081 Göttingen Germany**, (hereinafter referred to as "Assignee"), and whereas Assignee is desirous of acquiring the entire right, title and interest in the same;

Now, this indenture witnesseth, that for the sum of one dollar (\$1.00), and other good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer a 100% undivided interest in said invention, said application, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Director of the United States Patent and Trademark Office to issue said United States Letters Patent to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to execute all necessary and lawful future documents, including assignments in favor of Assignee, or its designees as Assignee or its Assignees may from time-to-time present to us in order to perfect title in said Invention, modifications, and improvements in said Invention, applications and Letters Patent of the United States and countries foreign thereto;

And we further agree to sign and properly execute such necessary and lawful papers for application for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent that may be granted for our aforesaid Invention, as the Assignee thereof shall hereafter require and prepare at its own expense.

Executed this 6th day of August, in the year 2018 at _____

Munich, Germany

Witness: J. C. R.

Frank Mueller

[Signature]

Printed Name and Address: MELANIE LUETHIN, QIOPTIQ Feldkirchen

Executed this 6th day of August, in the year 2018 at _____

Hamble, United Kingdom

Witness: C. J. H.

Huw Major

[Signature]

Printed Name and Address: CHRISTOPHER J MADON

QPL, HAMBLE, UK SO31 4RF

Assignee: QIOPTIQ PHOTONICS GMBH & CO. KG

By:

i.v. A. J. [Signature]