

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
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EPAS ID: PAT4193119

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CRISTIANO MORNATTA	11/11/2016
ALESSANDRO FESTA	11/11/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	IPG PHOTONICS CORPORATION
<b>Street Address:</b>	50 OLD WEBSTER ROAD
<b>City:</b>	OXFORD
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01540
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	62141155
<b>Application Number:</b>	15080914
<b>PCT Number:</b>	US2016024843
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<b>ATTORNEY DOCKET NUMBER:</b>	IPG-P13101/US
<b>NAME OF SUBMITTER:</b>	JOSHUA D. ISENBERG
<b>SIGNATURE:</b>	/Joshua D. Isenberg, Reg. No. 41088/
<b>DATE SIGNED:</b>	12/20/2016
<b>Total Attachments: 2</b>	
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## ASSIGNMENT

THIS ASSIGNMENT, by **Cristiano Mornatta**, residing at **Milan, Italy**, and **Alessandro Festa**, residing at **Milan, Italy** (hereinafter referred to as the Assignors) witnesseth:

WHEREAS, said Assignees has invented certain new and useful improvements in

### HIGHER ORDER SEEDLESS RAMAN PUMPING

which are described in the following Applications for Letters Patent: United States Provisional Application No. **62/141,155** filed **March 31, 2015** and in the following Application for Letters Patent: U.S. Patent Application Number 15/080,914, filed March 25, 2016, and International Application Number PCT/US2016/024843, filed March 30, 2016. Said Assignors hereby authorize and request attorney, **Joshua D. Isenberg**, of **809 Corporate Way, Fremont, California 94539**, to enter the filing date(s) and application number(s) of said application(s) when known..

WHEREAS,

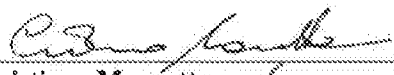
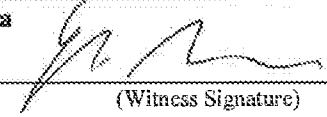
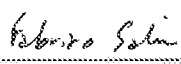
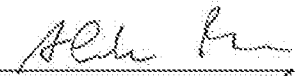
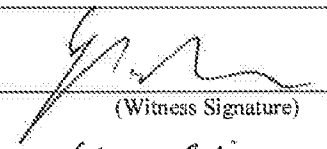
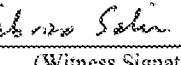
### IPG Photonics Corporation

(hereinafter referred to as the Assignee), a body having corporate powers under the laws of the state of **DELAWARE**, and having offices at **50 Old Webster Road, Oxford, MA 01540, USA**, is desirous of obtaining the entire right, title and interest in and to said inventions and said application for Letters Patent, and in and to any Letters Patent, United States or foreign, to be obtained therefore and thereon;

NOW, THEREFORE, for other good and sufficient considerations, the receipt of which is hereby acknowledged:

1. The Assignors have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over unto said Assignee, the entire right, title and interest in, to and under said inventions; said application for Letters Patent; any Letters Patent which may be granted for said inventions in the United States of America and any foreign country; any division, continuation, and continuation-in-part of said application; any reissue or extension of said Letters Patent; and all rights under the International Convention for the Protection of Industrial Property; said right, title and interest to be held and enjoyed by said Assignee for its own use and behoove to the full end of the term for which Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignee, had this sale and assignment not been made.
2. Said Assignors jointly and severally warrant and represent that, at the time of execution and delivery of these presents, said Assignees is the lawful owner of the entire right, title and interest in and to said inventions and said application for Letters Patent, and that the same has not entered into any assignment, contract or understanding in conflict herewith.
3. Said Assignors hereby covenant and agree to assist and cooperate with said Assignee, whereby said Assignee may enjoy to the fullest extent said right, title and interest herein conveyed, provided, however, that the entire expense which may be incurred by said Assignees in lending such assistance and cooperation be paid by Assignee. Such cooperation shall include: (a) prompt execution of all papers (prepared at the expense of Assignee) which are deemed necessary or desirable by Assignee to perfect said right, title and interest herein conveyed, (b) prompt execution of all petitions, oaths, specifications, declarations and other papers (prepared at the expense of Assignee) which are deemed necessary or desirable by Assignee for filing or prosecuting in the United States or any foreign country said application, any application which is a division, continuation, or continuation-in-part of said application, any reissue application for any Letters Patent granted on said application, or for any interference proceeding involving said application or Letters Patent granted thereon; and (c) prompt assistance and cooperation in the prosecution of all legal proceedings involving said inventions, said application, or Letters Patent granted thereon, including oppositions, cancellation proceedings, priority contests, public use proceedings and court actions.
4. The terms, covenants and conditions of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and/or other legal representatives, and shall be binding upon said Assignors, their heirs, legal representatives and assigns.
5. Said Assignee hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States to said Assignee as the assignee of said inventions.

IN WITNESS WHEREOF said Assignors have executed and delivered this instrument on the respective dates noted below.

Date: <u>11/13/2016</u>	<u></u> Cristiano Mornatta
Witnessed by: <u>EMILIANO ARTONI</u> (Typed or Printed Name of Witness)	<u></u> (Witness Signature)
Witnessed by: <u>FABRIZIO SALINA</u> (Typed or Printed Name of Witness)	<u></u> (Witness Signature)
Date: <u>11/11/2016</u>	<u></u> Alessandro Festa
Witnessed by: <u>EMILIANO ARTONI</u> (Typed or Printed Name of Witness)	<u></u> (Witness Signature)
Witnessed by: <u>FABRIZIO SALINA</u> (Typed or Printed Name of Witness)	<u></u> (Witness Signature)