

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4022160

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DAVID M. FILGAS	08/23/2016
BRIAN F. BOLAND	08/23/2016
ANDREW D.W. MCKIE	08/23/2016
RECEIVING PARTY DATA	
Name:	RAYTHEON COMPANY
Street Address:	870 WINTER STREET
City:	WALTHAM
State/Country:	MASSACHUSETTS
Postal Code:	02451-1449
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15246076
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	WILLIAM A. MUNCK
SIGNATURE:	/William A. Munck/
DATE SIGNED:	08/24/2016
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 6	
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ASSIGNMENT and DECLARATION

I/we, the undersigned, David M. Filgas, Brian F. Boland, and Andrew D. W. McKie ("**Assignor(s)**"), have made certain inventions or discoveries (or both) set forth in patent applications including:

- a provisional patent application entitled HIGH-POWER LASER SYSTEM AND RELATED COMPONENTS, which was filed on November 25, 2015 and assigned Application No. 62/259,722;

- a provisional patent application entitled PLANAR WAVEGUIDE (PWG) AMPLIFIER-BASED LASER SYSTEM WITH CORRECTION IN LOW-POWER BEAM PATH, which was filed on December 11, 2015 and assigned Application No. 62/266,507; and

- a non-provisional patent application entitled PLANAR WAVEGUIDE (PWG) AMPLIFIER-BASED LASER SYSTEM WITH ADAPTIVE OPTIC WAVEFRONT CORRECTION IN LOW-POWER BEAM PATH, identified as *Attorney Docket No. 13-5487 (RAYN01-35487)* (filed on _____ and assigned Application No. _____).

In the event that any of the execution dates, filing dates and/or Application Nos. are not entered or are incorrect at the time Assignor(s) executed this document, Assignor(s) hereby authorize and request an attorney of Assignee to insert the information or make the correction.

RAYTHEON COMPANY is a Delaware Corporation having a place of business at 870 Winter Street, Waltham, MA 02451-1449, and which, together with its successors and assigns ("**Assignee**"), is desirous of acquiring the title, rights, benefits and privileges hereinafter recited.

For valuable consideration furnished by Assignee to Assignor(s), receipt and sufficiency of which Assignor(s) hereby acknowledge, Assignor(s) hereby, without reservation:

1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said applications, any and all other patent applications (including without limitation utility models, provisionals, designs, plants and any other such intellectual property) on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, reissue, re-examination and convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent and any provisional applications from which priority is claimed in said patent applications and said Letters Patent and all rights to claim or sue for prior damages;

2. Authorize Assignee to file said patent applications in any or all countries on any or all of said inventions and discoveries in the name of Assignor(s) or in the name

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Attorney Docket No. 13-5487 (RAYN01-35487)

of Assignee or otherwise as Assignee may deem advisable, under any international conventions, international treaties, or otherwise;

3. Authorize and request the Commissioner of Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Confirm that Assignor(s) have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and

5. Bind heirs, legal representatives and assigns of Assignor(s), as well as Assignor(s), to do, upon Assignee's request, all acts reasonable to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by Assignor(s) or heirs, legal representatives and assigns of Assignor(s) if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to Assignor(s) relating to said inventions and discoveries or the history thereof; and to furnish Assignee, upon request, with any and all relevant documents, photographs, models, samples and other physical exhibits in control of Assignor(s) or in the control of heirs, legal representatives or assigns of Assignor(s).

Assignor(s) accept the terms of this Assignment as indicated by their signature below.

Further, each Assignor individually, as a named inventor, hereby declares:

- a) The above-identified non-provisional application was made or authorized to be made by me;
- b) I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified non-provisional application; and
- c) I hereby acknowledge that any willful false statement made in this declaration is punishable under § 1001 of Title 18 of the United States Code by fine or imprisonment of not more than five (5) years, or both.

Each Assignor individually, as a named inventor, also states:

I have reviewed and understand the contents of the above-identified non-

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provisional application.

I acknowledge the duty to disclose to the United States Patent Office all information known to me to be material to the patentability of the above-identified non-provisional application.

[Signatures on following pages]

PATENT ASSIGNMENT and DECLARATION
Attorney Docket No. 13-5487 (RAYN01-35487)

Accepted by:

Dated: 8/23/16

David M. Filgas
David M. Filgas

Witnessed by:

Dated: 8/23/16

David W. Mordant
Signature

David Mordant
Printed Name

Dated: 8/23/16

[Signature]
Signature

BILL SAUNDERS
Printed Name

PATENT ASSIGNMENT and DECLARATION
Attorney Docket No. 13-5487 (RAYN01-35487)

Accepted by:

Dated: 8/23/2016

Brian F Boland
Brian F. Boland

Witnessed by:

Dated: 8-23-16

Sheldon Parker
Signature

SHELDON PARKER
Printed Name

Dated: 8/23/16

Bac Dai Tran
Signature

BAC DAI TRAN
Printed Name

PATENT ASSIGNMENT and DECLARATION
Attorney Docket No. 13-5487 (RAYN01-35487)

Accepted by:

Dated: 08/23/2016

Andrew D. W. McKie
Andrew D. W. McKie

Witnessed by:

Dated: 8/23/16

Robert Hallock
Signature

Robert Hallock
Printed Name

Dated: 8/23/16

Robert F. Leon III
Signature

Robert F. Leon III
Printed Name