

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5041177

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHRISTIAN KEYSER	05/31/2018
CHAD WELSH	05/31/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE GOVERNMENT OF THE UNITED STATES AS REPRESENTED BY THE SECRETARY OF THE AIR FORCE
<b>Street Address:</b>	2240 B STREET
<b>Internal Address:</b>	BUILDING 11, ROOM 204
<b>City:</b>	WRIGHT PATTERSON AFB
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	45433
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16030085
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(937)255-3733
<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>	
<b>Phone:</b>	937-255-2838
<b>Email:</b>	afmclo.jaz.1@us.af.mil
<b>Correspondent Name:</b>	DEPARTMENT OF THE AIR FORCE AFMCLO/JAZ
<b>Address Line 1:</b>	2240 B STREET
<b>Address Line 2:</b>	BUILDING 11
<b>Address Line 4:</b>	WRIGHT-PATTERSON AFB, OHIO 45433-7109
<b>ATTORNEY DOCKET NUMBER:</b>	AFD 1678
<b>NAME OF SUBMITTER:</b>	JAMES F. MCBRIDE
<b>SIGNATURE:</b>	/James F. McBride/
<b>DATE SIGNED:</b>	07/09/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 2</b>	
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**ASSIGNMENT**  
**(Government Inventor)**

WHEREAS, I, CHAD WELSH, while employed by the Government of the United States, made or contributed to an invention described in invention disclosure AFD 1678 entitled "TUNABLE LASER SYSTEM & AMPLIFIER USING A NOBLE GAS-FILLED HOLLOW-CORE FIBER WAVEGUIDE," to be filed as an application for Letters Patent of the United States (Application Serial Number 16/030085, filed 9 July 2018), and I hereby authorize and request Air Force Patent Counsel to insert here in the above parentheses (Application Serial Number, filed) the filing date and application number of said application when known; and

WHEREAS, the conditions under which said invention was made are such as to entitle the Government of the United States as represented by the Secretary of the Air Force, under Paragraph 1(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, CHAD WELSH:

HEREBY HAVE SOLD, ASSIGNED, AND TRANSFERRED, and by these presents do sell, assign, and transfer unto the Government of the United States as represented by the Secretary of the Air Force, my entire right, title, and interest, in and to the aforesaid invention described in the invention disclosure, all subsequent information to support that aforesaid invention, and the resulting application for Letters Patent of the United States including all Letters Patent issuing thereon, and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid application for patent in the United States;

HEREBY AUTHORIZE AND REQUEST any official whose duty it is to issue patents, to issue any patent thereon to the Government of the United States, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made;

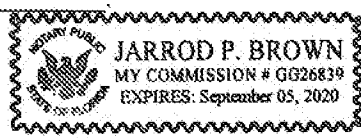
HEREBY ALSO GRANT to the Government of the United States, as represented by the Secretary of the Air Force, the option to take the entire right, title and interest in the invention or all applications for Letters Patent thereon in all countries or jurisdictions foreign to the United States in which the Government of the United States may file, or cause to be filed, applications for Letters Patent, without payment to me of any further consideration; provided, however, that this grant of an option to take foreign rights in the invention must be exercised by written notice to me within eight months of the first filing date of any application for United States Letters Patent covering the invention or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me, subject to a nonexclusive, irrevocable, royalty-free license to the Government of the United States in any patent which may issue on said invention in any country or jurisdiction foreign to the United States, including the power to issue sublicenses for use on behalf of the Government of the United States and/or in furtherance of the foreign policies of the United States of America; and

HEREBY AGREE to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.

*Chad Welsh*

CHAD WELSH

SUBSCRIBED AND ACKNOWLEDGED before me by CHAD WELSH this 31<sup>st</sup> day of May 2018, at the city of Niceville in the County of Okaloosa and State of Florida



*Jarrod P. Brown*  
Notary Public

**ASSIGNMENT  
(Government Inventor)**

WHEREAS, I, CHRISTIAN KEYSER, while employed by the Government of the United States, made or contributed to an invention described in invention disclosure AFD 1678 entitled "TUNABLE LASER SYSTEM & AMPLIFIER USING A NOBLE GAS-FILLED HOLLOW-CORE FIBER WAVEGUIDE," to be filed as an application for Letters Patent of the United States (Application Serial Number 16/030085, filed 9 July 2018), and I hereby authorize and request Air Force Patent Counsel to insert here in the above parentheses (Application Serial Number, filed) the filing date and application number of said application when known; and

WHEREAS, the conditions under which said invention was made are such as to entitle the Government of the United States as represented by the Secretary of the Air Force, under Paragraph 1(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, CHRISTIAN KEYSER:

HEREBY HAVE SOLD, ASSIGNED, AND TRANSFERRED, and by these presents do sell, assign, and transfer unto the Government of the United States as represented by the Secretary of the Air Force, my entire right, title, and interest, in and to the aforesaid invention described in the invention disclosure, all subsequent information to support that aforesaid invention, and the resulting application for Letters Patent of the United States including all Letters Patent issuing thereon, and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid application for patent in the United States;

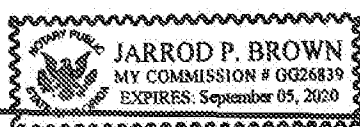
HEREBY AUTHORIZE AND REQUEST any official whose duty it is to issue patents, to issue any patent thereon to the Government of the United States, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made;

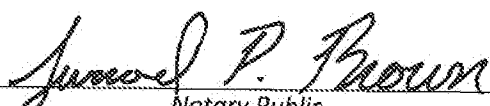
HEREBY ALSO GRANT to the Government of the United States, as represented by the Secretary of the Air Force, the option to take the entire right, title and interest in the invention or all applications for Letters Patent thereon in all countries or jurisdictions foreign to the United States in which the Government of the United States may file, or cause to be filed, applications for Letters Patent, without payment to me of any further consideration; provided, however, that this grant of an option to take foreign rights in the invention must be exercised by written notice to me within eight months of the first filing date of any application for United States Letters Patent covering the invention or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me, subject to a nonexclusive, irrevocable, royalty-free license to the Government of the United States in any patent which may issue on said invention in any country or jurisdiction foreign to the United States, including the power to issue sublicenses for use on behalf of the Government of the United States and/or in furtherance of the foreign policies of the United States of America; and

HEREBY AGREE to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.

  
CHRISTIAN KEYSER

SUBSCRIBED AND ACKNOWLEDGED before me by CHRISTIAN KEYSER this 31<sup>st</sup> day of May 2018, at the city of Niceville in the County of Okaloosa and State of Florida

  
JARROD P. BROWN  
MY COMMISSION # GG26839  
EXPIRES: September 05, 2020

  
Notary Public

**PATENT**