

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7519130

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the DATA FROM: PLASMA IGNITER, LLC TO WEST VIRGINIA UNIVERSITY BOARD OF GOVERNORS ON BEHALF OF WEST VIRGINIA UNIVERSITY previously recorded on Reel 044919 Frame 0722. Assignor(s) hereby confirms the ASSIGNMENT.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ANDREW D. LOWERY	12/18/2017
JAMES E. SMITH	12/18/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	WEST VIRGINIA UNIVERSITY BOARD OF GOVERNORS ON BEHALF OF WEST VIRGINIA UNIVERSITY
<b>Street Address:</b>	886 CHESTNUT RIDGE ROAD
<b>Internal Address:</b>	P.O. BOX 6224
<b>City:</b>	MORGANTOWN
<b>State/Country:</b>	WEST VIRGINIA
<b>Postal Code:</b>	26506-6216
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16517090
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(770)951-0933
<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>	7709339500
<b>Email:</b>	j.neu@thip.law
<b>Correspondent Name:</b>	THOMAS HORSTEMEYER, LLP
<b>Address Line 1:</b>	3200 WINDY HILL ROAD SE
<b>Address Line 2:</b>	SUITE 1600E
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30339
<b>ATTORNEY DOCKET NUMBER:</b>	052324-1580
<b>NAME OF SUBMITTER:</b>	ROBERT D. POINTER
<b>SIGNATURE:</b>	/Robert D. Pointer/
<b>DATE SIGNED:</b>	09/02/2022
<b>Total Attachments: 4</b>	

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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4743782

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	ANDREW D. LOWERY	12/18/2017
	JAMES E. SMITH	12/18/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	<del>PLASMA IGNITER, LLO</del> WEST VIRGINIA UNIVERSITY BOARD OF GOVERNORS ON BEHALF OF WEST VIRGINIA UNIVERSITY	
<b>Street Address:</b>	<del>20201 N. PRESTON HWY</del> 888 Chestnut Ridge Road, P.O. Box 6224,	
<b>City:</b>	<del>BRUCETON MILLS</del> Morgantown	
<b>State/Country:</b>	WEST VIRGINIA	
<b>Postal Code:</b>	<del>26525</del> 26506-6216	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15848005
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(312)913-0002	
<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>	3129130001	
<b>Email:</b>	huffman@mbhb.com, docketing@mbhb.com	
<b>Correspondent Name:</b>	MCDONNELL BOEHNNEN HULBERT & BERGHOFF LLP	
<b>Address Line 1:</b>	300 SOUTH WACKER DRIVE	
<b>Address Line 2:</b>	SUITE #3100	
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60606	
<b>ATTORNEY DOCKET NUMBER:</b>	17-1510	
<b>NAME OF SUBMITTER:</b>	GREGORY M. HUFFMAN	
<b>SIGNATURE:</b>	/Gregory M. Huffman/	
<b>DATE SIGNED:</b>	12/20/2017	
<b>Total Attachments: 2</b>		
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Lowery, et al.

Application No.: 15/848,005

Filed: December 20, 2017

For: Jet Engine with Plasma-assisted Combustion

**AFFIDAVIT**

I, John H. Zeit under authority granted to me by, and on behalf of, Plasma Igniter, LLC, hereby aver under oath and in good faith, as follows:

1. On December 20, 2017, Plasma Igniter, LLC, filed an assignment of the above-identified patent application with the U.S. Patent and Trademark Office, which was recorded at Reel 44919, Frame 722.

2. The Assignment erroneously identified the assignee as Plasma Igniter, LLC.

3. Pursuant to prior agreements among Plasma Igniter, LLC, the inventors, and West Virginia University and its affiliates, and as affirmed by Order of the United States District Court for the Northern District of West Virginia, Case No. 1:21-cv-116, dated February 22, 2022, the assignee of the subject application should have been identified as West Virginia University Board of Governors on Behalf of West Virginia University.

4. Submitted with this Affidavit is a corrective Assignment, initialed and dated by the parties conveying their rights in the subject application, correcting this erroneous identification of the assignee of the subject application.

5. I hereby acknowledge that any willful false statement made in this affidavit is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

State of Ohio  
County of Summit

[Name]

Subscribed and sworn to, or affirmed, before me by John Zeit, a resident of Portage County, OHIO, on March 16, 2022.

My Commission Expires: 12/04/2027



Maria Ciampi  
Notary Public

PATENT

REEL: 061371 FRAME: 0823

**ASSIGNMENT**

Case No.: 17-1510

Application No.: 15/848,005

Inventors: Andrew D. Lowery, Ph.D. and James E. Smith, Ph.D.

Date of Execution of Application:

Filing Date: December 20, 2017

In consideration of good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to:

**Plasma-Igniter, LLC**

**West Virginia University Board of Governors on Behalf of West Virginia University**

its successors and assigns, the entire right, title, and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

**Jet Engine with Plasma-assisted Combustion**

and identified as:

**Case No. 17-1510**

in the offices of McDONNELL BOBINEN HILBERT & BERGHOFF LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue, reexamination, or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and application number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made. This Assignment will be governed by the substantive laws of the United States of America and the state of West Virginia (excluding any provisions thereof relating to conflicts of laws).

**Inventors**

Signature:  
Name:

Andrew D. Lowery  
Andrew D. Lowery, Ph.D.

Date:

12/18/2017

Signature:  
Name:

James E. Smith  
James E. Smith, Ph.D.

Date:

12/18/17

**Representative of Plasma Igniter, LLC**

Signature:

John J. Ferchill

Date:

12/18/17

Name:

John J. Ferchill

Title:

Interim Board Member

**Initials of Representative of Plasma Igniter, LLC**

04/18/2022

Name: JOHN J. FERCHILL

Title: INTERIM BOARD MEMBER