

## PATENT ASSIGNMENT COVER SHEET

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                         |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                             |
| <b>CONVEYING PARTY DATA</b>   |  |
| <b>Name</b>   | <b>Execution Date</b>                  |
| JAMES E. SMITH  | 11/16/2007                             |
| FRANZ A. PERTL  | 11/19/2007                             |
| <b>RECEIVING PARTY DATA</b>   |  |
| <b>Name:</b>  | WEST VIRGINIA UNIVERSITY               |
| <b>Street Address:</b>  | CHESTNUT RIDGE RESEARCH BLDG.          |
| <b>Internal Address:</b>  | 886 CHESTNUT RIDGE ROAD, 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:   | 15454418                               |
| <b>CORRESPONDENCE DATA</b>  |  |
| <b>Fax Number:</b>  | (770)951-0933                          |
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| <b>Correspondent Name:</b>  | THOMAS   HORSTEMEYER, LLP              |
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| <b>ATTORNEY DOCKET NUMBER:</b>  | 052324-1570                            |
| <b>NAME OF SUBMITTER:</b>   | SCOTT A. HORSTEMEYER                   |
| <b>SIGNATURE:</b>   | /SAH/                                  |
| <b>DATE SIGNED:</b>   | 04/06/2020                             |
| <b>Total Attachments: 1</b>   |  |
| source=52324-1570_Executed_Assignment_from_14272560#page1.tif   |  |

**ASSIGNMENT**

IN CONSIDERATION of the sum of One and No/100 Dollars (\$1.00), and other good and valuable consideration, paid or to be paid to **JAMES E. SMITH**, an individual, residing in Bruceton Mills, West Virginia and **FRANZ A. PERTL**, an individual, residing in Morgantown West Virginia (collectively, "the undersigned"), the receipt of which is acknowledged, the undersigned hereby sell and assign to **WEST VIRGINIA UNIVERSITY**, having a place of business in Morgantown, West Virginia, (the "Assignee"), their entire right, title and interest, for the United States of America and throughout the world, in the invention known as "**Plasma Generating Ignition System and Associated Method**," (having serial number: to be assigned, filed: herewith), in any and all applications thereon, in any and all Letters Patent(s) therefore, and in any and all reissue, extensions, renewals, reexaminations of such applications or Letters Patent(s), and in any non-provisional, divisional, continuation, and continuation-in-part applications thereof, to the full end of the term or terms for which such Letters Patent(s) issue, such entire right, title and interest to be held and enjoyed by the above-named Assignee to the same extent as it or they would have been held and enjoyed by the undersigned had this assignment and sale not been made.

The undersigned agrees to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agrees to execute all papers necessary in connection with any interference that may be declared concerning the application(s) or any non-provisional, continuing (continuation, divisional or continuation-in-part), reissue or reexamination application thereof, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned hereby represents that they have full right to convey the entire interest herein assigned, and that the undersigned has not executed, and will not execute, any agreement in conflict therewith.

The undersigned hereby grants Megan D. Dortenzo, Registration No. 39,172, Douglas J. Gordon, Registration No. 54,129, and Troy S. Prince, Registration No. 48,746, of THOMPSON HINE LLC, P.O. Box 8801, Dayton, OH 45401-8801, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

**IN WITNESS WHEREOF**, executed by the parties on the dates opposite their names.

Date: November 16, 2007

  
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**JAMES E. SMITH**, an individual

Date: November 19, 2007

  
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**FRANZ A. PERTL**, an individual