

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4449522

|                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                    |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | CORRECTIVE ASSIGNMENT                                                                                                                                                                                                                                                                              |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | Corrective Assignment to correct the THE PRIOR RECORDATION INADVERTENTLY ISSUED IN THE NAME OF WEST VIRGINIA UNIVERSITY RESEARCH COMPANY previously recorded on Reel 042355 Frame 0277. Assignor(s) hereby confirms the THE ASSIGNEE NAME SHOULD BE WEST VIRGINIA UNIVERSITY RESEARCH CORPORATION. |                       |
| <b>RESUBMIT DOCUMENT ID:</b>                                                                                                                                                                    | 504383064                                                                                                                                                                                                                                                                                          |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                    |                       |
|                                                                                                                                                                                                 | <b>Name</b>                                                                                                                                                                                                                                                                                        | <b>Execution Date</b> |
|                                                                                                                                                                                                 | JAMES E. SMITH                                                                                                                                                                                                                                                                                     | 01/10/2005            |
|                                                                                                                                                                                                 | JAMES VERNON ODOM                                                                                                                                                                                                                                                                                  | 01/10/2005            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                    |                       |
| <b>Name:</b>                                                                                                                                                                                    | WEST VIRGINIA UNIVERSITY RESEARCH CORPORATION                                                                                                                                                                                                                                                      |                       |
| <b>Street Address:</b>                                                                                                                                                                          | 886 CHESTNUT RIDGE ROAD                                                                                                                                                                                                                                                                            |                       |
| <b>City:</b>                                                                                                                                                                                    | MORGANTOWN                                                                                                                                                                                                                                                                                         |                       |
| <b>State/Country:</b>                                                                                                                                                                           | WEST VIRGINIA                                                                                                                                                                                                                                                                                      |                       |
| <b>Postal Code:</b>                                                                                                                                                                             | 26506-6845                                                                                                                                                                                                                                                                                         |                       |
| <b>PROPERTY NUMBERS Total: 2</b>                                                                                                                                                                |                                                                                                                                                                                                                                                                                                    |                       |
|                                                                                                                                                                                                 | <b>Property Type</b>                                                                                                                                                                                                                                                                               | <b>Number</b>         |
|                                                                                                                                                                                                 | <b>Application Number:</b>                                                                                                                                                                                                                                                                         | 14540717              |
|                                                                                                                                                                                                 | <b>Patent Number:</b>                                                                                                                                                                                                                                                                              | 8613710               |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                    |                       |
| <b>Fax Number:</b>                                                                                                                                                                              | (202)517-6322                                                                                                                                                                                                                                                                                      |                       |
| <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>                                                                                                                                                                                   | 2025171888                                                                                                                                                                                                                                                                                         |                       |
| <b>Email:</b>                                                                                                                                                                                   | badonovan@pbnlaw.com                                                                                                                                                                                                                                                                               |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | PORZIO, BROMBERG & NEWMAN P.C.                                                                                                                                                                                                                                                                     |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | 1200 NEW HAMPSHIRE AVE., NW                                                                                                                                                                                                                                                                        |                       |
| <b>Address Line 2:</b>                                                                                                                                                                          | SUITE 710                                                                                                                                                                                                                                                                                          |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | WASHINGTON, D.C. 20036                                                                                                                                                                                                                                                                             |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 025005.0103N1N1 (03128)                                                                                                                                                                                                                                                                            |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | BETH DONOVAN                                                                                                                                                                                                                                                                                       |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Beth Donovan/                                                                                                                                                                                                                                                                                     |                       |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>DATE SIGNED:</b>                                                                                                                                                                                                                                                                                                                                                                                                                              | 06/07/2017 |
| <b>Total Attachments: 9</b><br>source=0103N1N1_AssignmentResub#page1.tif<br>source=0103N1N1_AssignmentResub#page2.tif<br>source=0103N1N1_AssignmentResub#page3.tif<br>source=0103N1N1_AssignmentResub#page4.tif<br>source=0103N1N1_AssignmentResub#page5.tif<br>source=0103N1N1_AssignmentResub#page6.tif<br>source=0103N1N1_AssignmentResub#page7.tif<br>source=0103N1N1_AssignmentResub#page8.tif<br>source=0103N1N1_AssignmentResub#page9.tif |            |

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4411598

|                                                                                                                                                                                                 |                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <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                                                                                                                                                                                  | 01/10/2005                                |
| JAMES VERNON ODOM                                                                                                                                                                               | 01/10/2005                                |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                           |
| <b>Name:</b>                                                                                                                                                                                    | WEST VIRGINIA UNIVERSITY RESEARCH COMPANY |
| <b>Street Address:</b>                                                                                                                                                                          | 886 CHESTNUT RIDGE ROAD                   |
| <b>City:</b>                                                                                                                                                                                    | MORGANTOWN                                |
| <b>State/Country:</b>                                                                                                                                                                           | WEST VIRGINIA                             |
| <b>Postal Code:</b>                                                                                                                                                                             | 26506                                     |
| <b>PROPERTY NUMBERS Total: 2</b>                                                                                                                                                                |                                           |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                             |
| <b>Application Number:</b>                                                                                                                                                                      | 14540717                                  |
| <b>Patent Number:</b>                                                                                                                                                                           | 8613710                                   |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                           |
| <b>Fax Number:</b>                                                                                                                                                                              | (202)517-6322                             |
| <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>                                                                                                                                                                                   | 2025171888                                |
| <b>Email:</b>                                                                                                                                                                                   | badonovan@pbnlaw.com                      |
| <b>Correspondent Name:</b>                                                                                                                                                                      | PORZIO, BROMBERG & NEWMAN P.C.            |
| <b>Address Line 1:</b>                                                                                                                                                                          | 1200 NEW HAMPSHIRE AVE., NW               |
| <b>Address Line 2:</b>                                                                                                                                                                          | SUITE 710                                 |
| <b>Address Line 4:</b>                                                                                                                                                                          | WASHINGTON, D.C. 20036                    |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 025005.0103N1N1 (03128)                   |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | BETH DONOVAN                              |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Beth Donovan/                            |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 05/12/2017                                |
| <b>Total Attachments: 4</b>                                                                                                                                                                     |                                           |
| source=WVU_Assign#page1.tif                                                                                                                                                                     |                                           |
| source=WVU_Assign#page2.tif                                                                                                                                                                     |                                           |
| source=WVU_Assign#page3.tif                                                                                                                                                                     |                                           |

**ASSIGNMENT**  
(For Use Prior to Filing Patent Application or Contemporaneously  
Therewith)

WHEREAS,

**INVENTOR(S) NAME(S)**  
**ADDRESS(ES)**

**INVENTOR(S) RESIDENCE**

James E. Smith  
Mechanical & Aerospace Engineering  
339 Engineering Science Bldg.  
PO Box 6106  
Morgantown, WV 26506-6106  
(304) 293-3111 x. 2361

Rt. 4 Box E-36  
Bruceton Mills, WV 26525

James Vernon Odom  
Department of Ophthalmology  
PO Box 9193  
Morgantown, WV 26506-9193  
(304) 598-6959

1125 Munsey Street  
Morgantown, WV 26505

("Assignor(s)") has/have invented certain new and useful improvements in an invention with a working title of:

**INVENTION TITLE**

**A NON-INVASIVE METHOD FOR DETERMINING THE PRESENCE  
CAUSED BY SYSTEMATIC HYPERTENSION**

which may become the subject of a United States or foreign patent application or any other type of intellectual property protection.

AND WHEREAS WEST VIRGINIA UNIVERSITY RESEARCH CORPORATION, a non-profit West Virginia corporation (hereinafter called "Assignee"), acting in behalf of WEST VIRGINIA UNIVERSITY, having a place of business at 886 Chestnut Ridge Road, Morgantown, West Virginia 26506-6845, is desirous of acquiring the entire worldwide right, title, and interest in, to and under said invention and in, to and under Letters Patent or similar legal protection

**PATENT**

REEL: 016196 FRAME: 0914

**PATENT**

REEL: 042641 FRAME: 0287

including any intellectual property protections to be obtained therefor in the United States, its territorial possessions, and in any and all foreign countries.

NOW, THEREFORE, in consideration of One (\$1.00) Dollar, the Patent Policy of West Virginia University and/or other good and valuable consideration paid to Assignor(s) by said Assignee, the receipt and sufficiency of all of which Assignor(s) hereby acknowledge(s), Assignor(s) do/does hereby assign, sell, transfer, and set over unto said Assignee, acting for and in behalf of West Virginia University, the entire right, title, interest in said inventions and improvements for the United States and its territorial possessions and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof including all priority rights under the International Convention associated therewith for each country and the Union, said Assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and an and all divisions, reissues, continuations, continuations-in-part, substitutes, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by Assignor(s) had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. Assignor(s) covenant that Assignor(s) is/are the lawful owner(s) of the inventions and improvements disclosed in said invention, that the same are unencumbered, that no license has been granted to make, use, offer for sale, sell or import said inventions or improvements or any of them, and that Assignor(s) has/have the full right to make this assignment.

Assignor(s) hereby covenant(s) with said Assignee, its successors, assigns and legal representatives that I/we have made to others no assignment, grant, mortgage, license, sale or agreement affecting the rights and property conveyed and that we have the full right to convey the same as herein expressed.

And for the consideration aforesaid, Assignor(s) agree(s) jointly and individually that Assignor(s) will communicate to said Assignee or the representatives thereof any facts known to Assignor(s) respecting said inventions and improvements, and will, upon request, but without expense to Assignor(s), testify in any legal proceeding, sign all lawful papers, execute all divisional, reissue, continuation, continuations-in-part, substitutes, renewal, and/or all other patent applications, execute all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said Assignee or by counsel for said Assignee, to assist or enable said Assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon Assignor(s) heirs, executors, administrators, successors, and/or

PATENT

REEL: 016196 FRAME: 0915

PATENT

REEL: 042641 FRAME: 0288

assigns, and shall inure to the benefit of the heirs, executors, administrative successors and/or assigns, as the case may be, of said Assignee.

DATE EXECUTED January 10, 2004 2005

  
James E. Smith

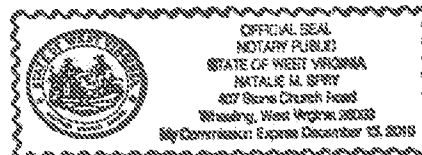
State of West Virginia:

County of Mingo:

Before me, a Notary Public in and for the said County and State, personally appeared Inventor, who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this 10<sup>th</sup> day of January, 2004 2005

  
Notary Public



DATE EXECUTED January 10, 2004 2005

  
James Vernon Odom

State of West Virginia:

County of Mingo:

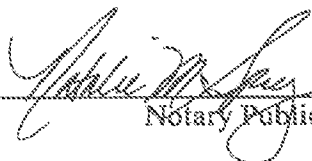
Before me, a Notary Public in and for the said County and State, personally appeared Inventor, who acknowledged that he is the person who executed the

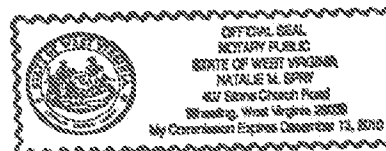
PATENT  
REEL: 016196 FRAME: 0916

PATENT  
REEL: 042641 FRAME: 0289

foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this 10<sup>th</sup> day of January, ~~2004~~ 2005

  
\_\_\_\_\_  
Notary Public



RECORDED: 01/13/2005

PATENT  
REEL: 016196 FRAME: 0917

RECORDED: 05/24/2017

PATENT  
REEL: 042641 FRAME: 0290